

Fig. 1

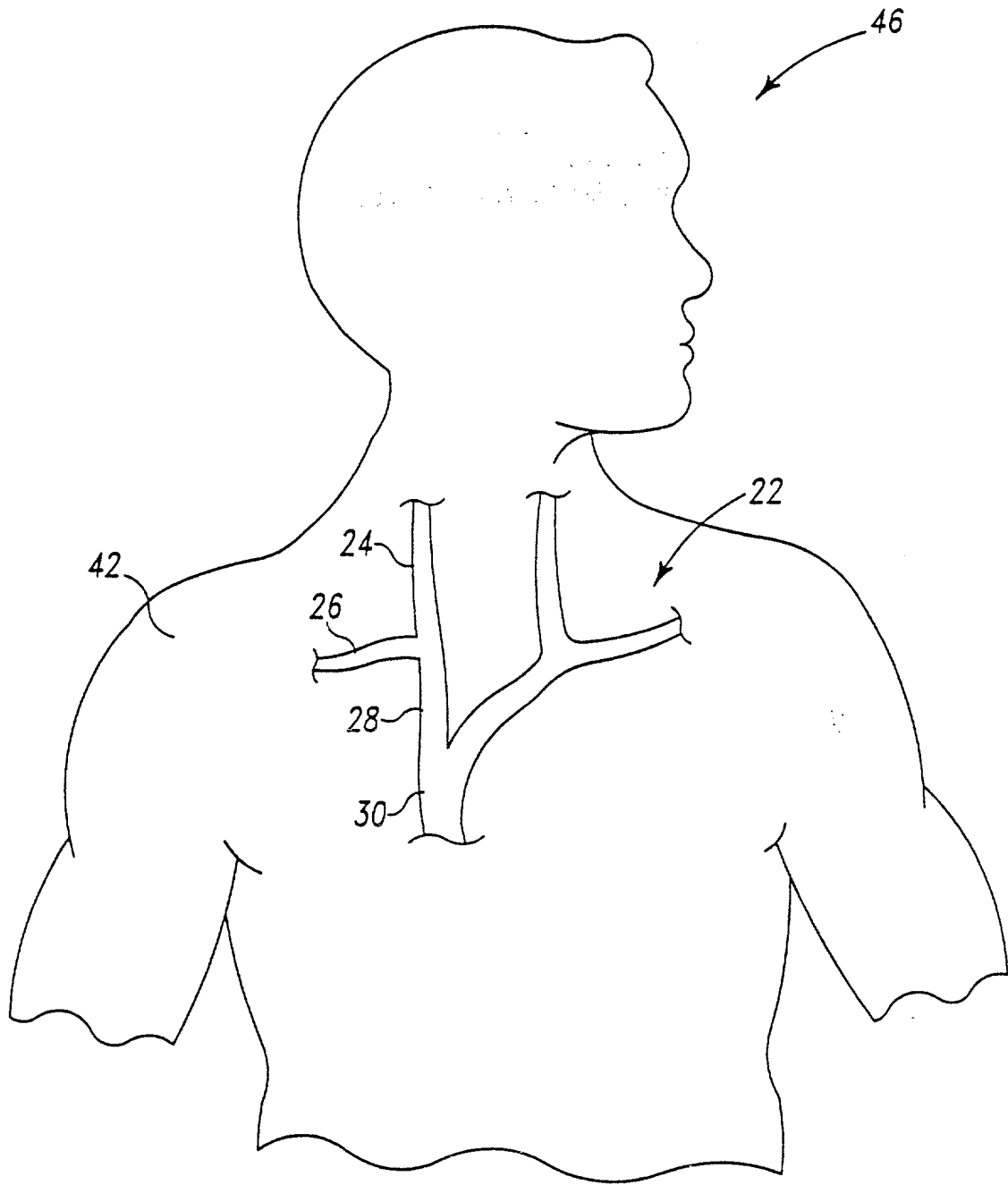


Fig. 2

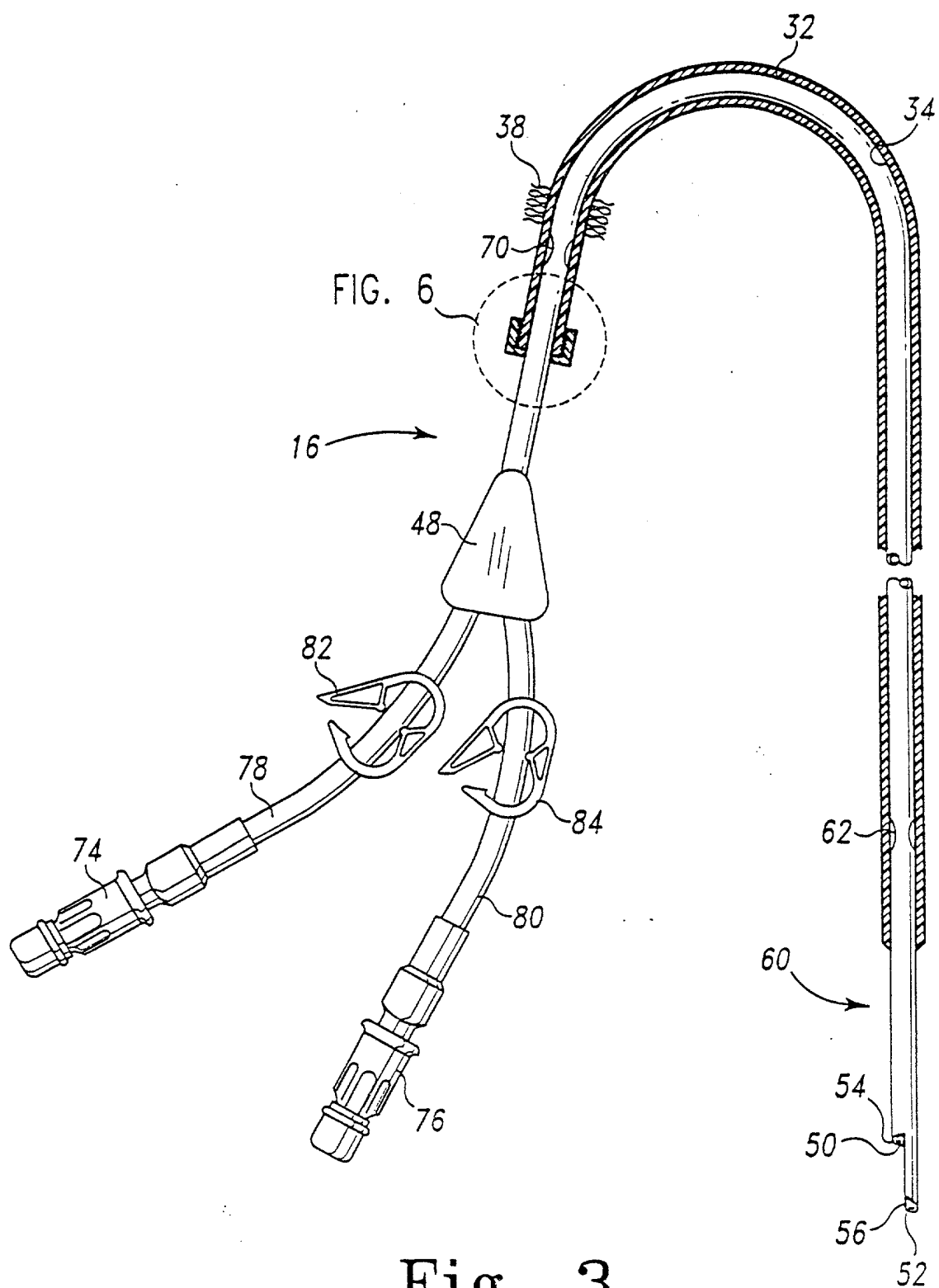


Fig. 3

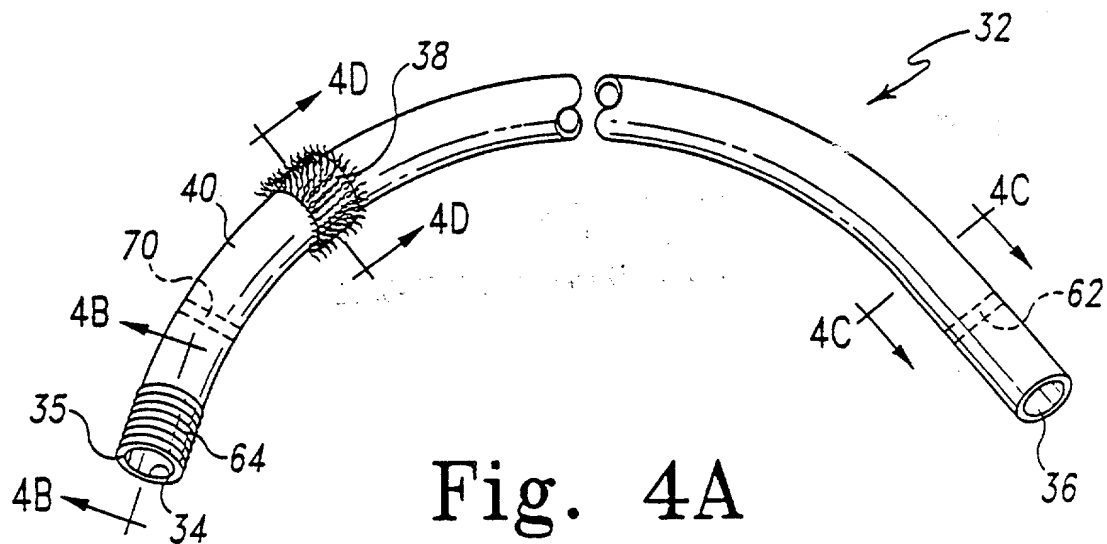


Fig. 4A

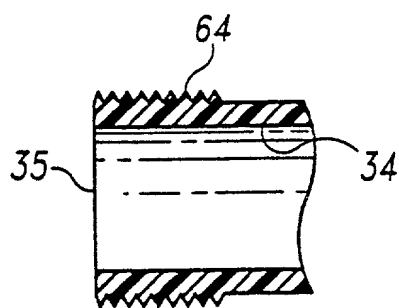


Fig. 4B

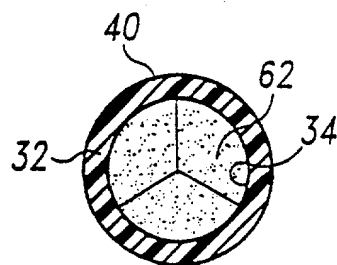


Fig. 4C

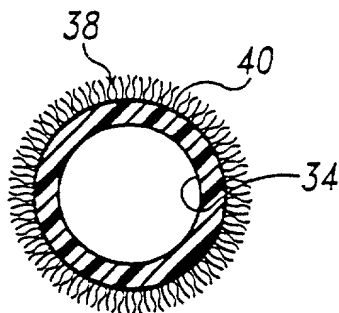


Fig. 4D

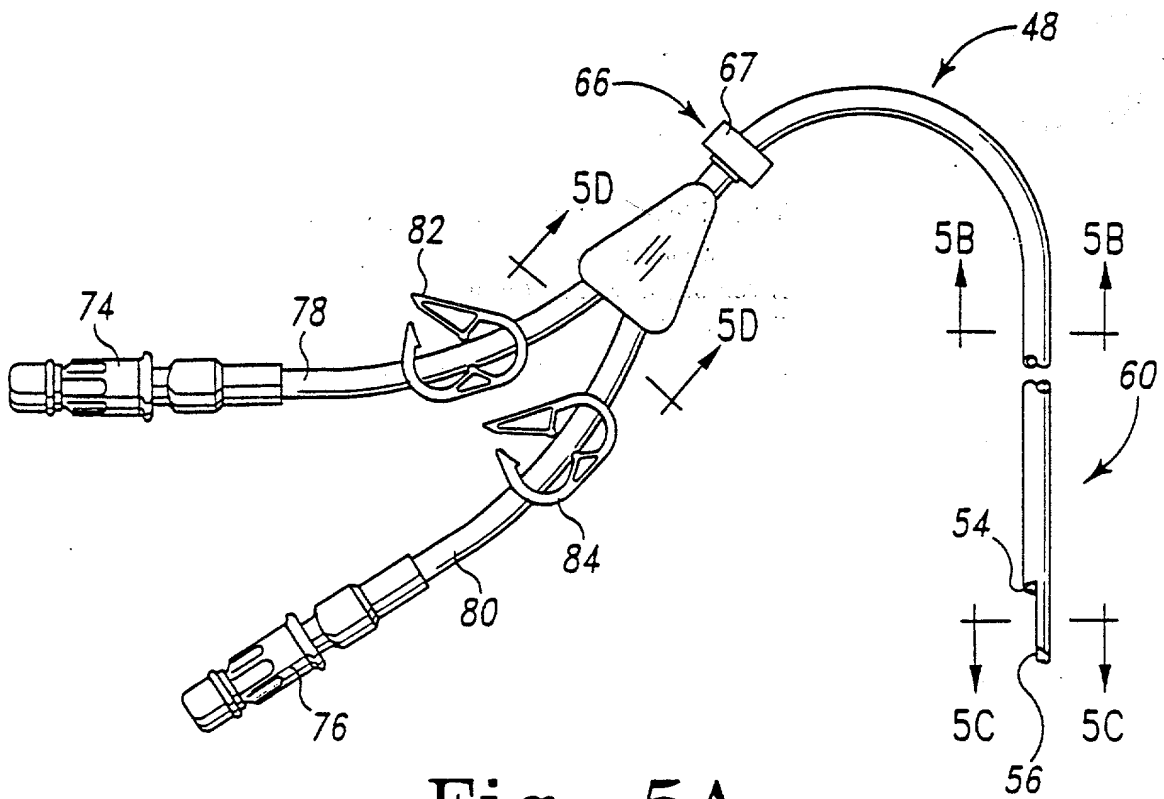


Fig. 5A

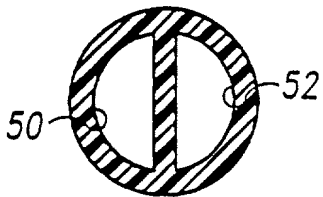


Fig. 5B

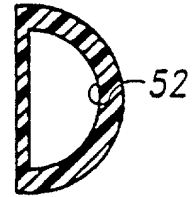


Fig. 5C

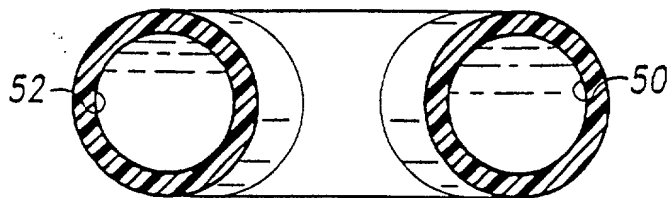


Fig. 5D

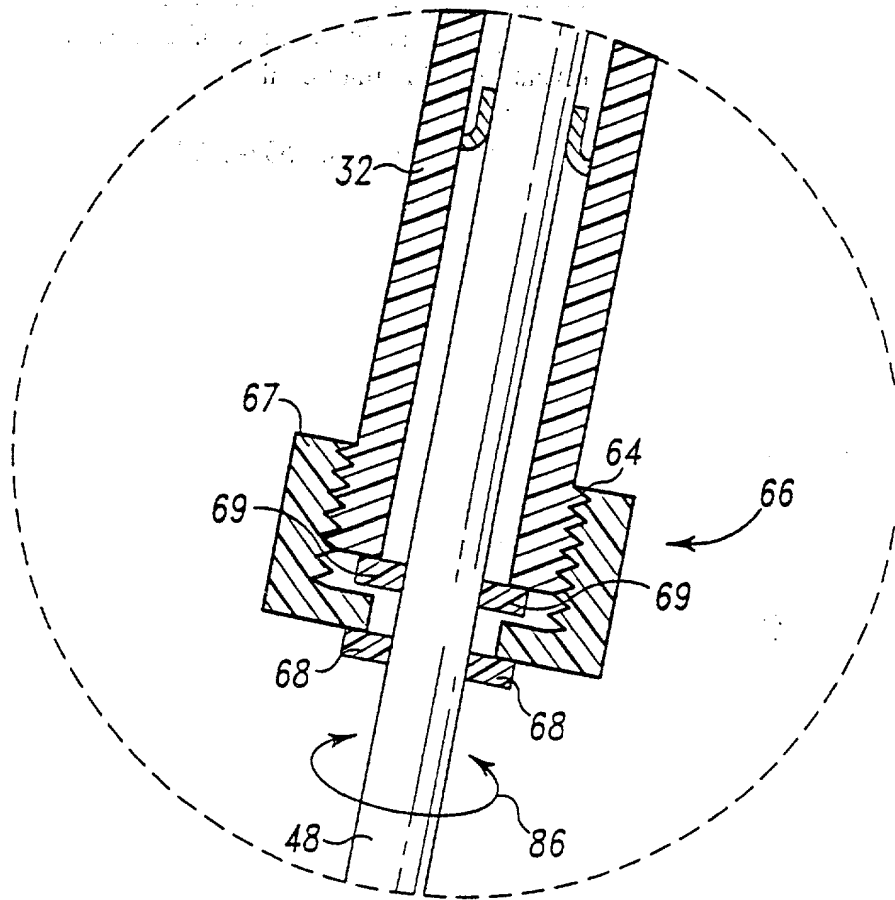


Fig. 6

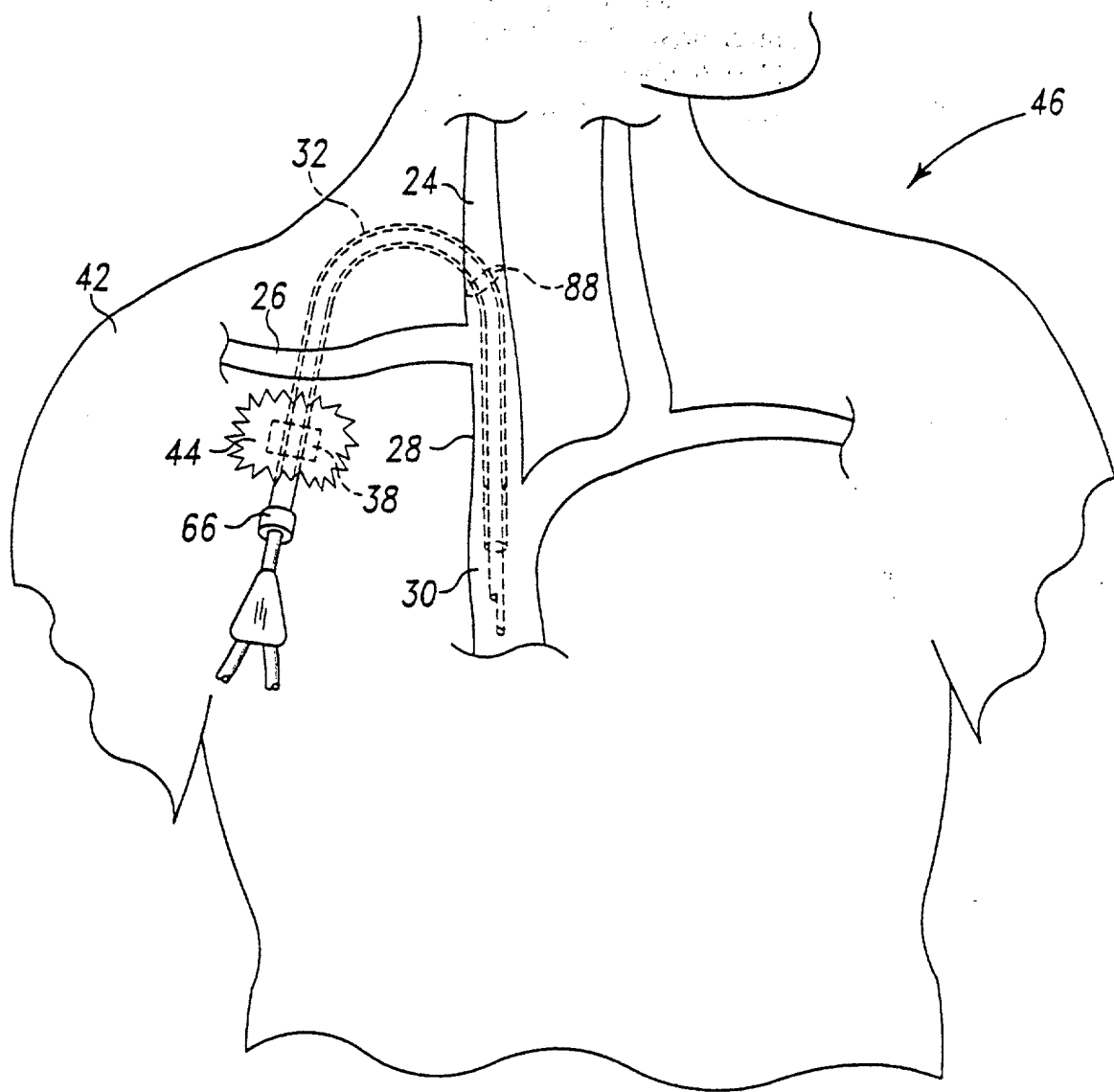


Fig. 7

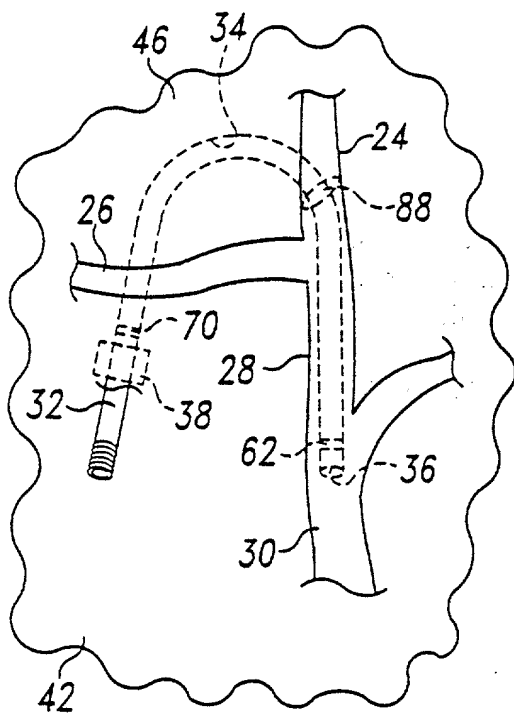


Fig. 8

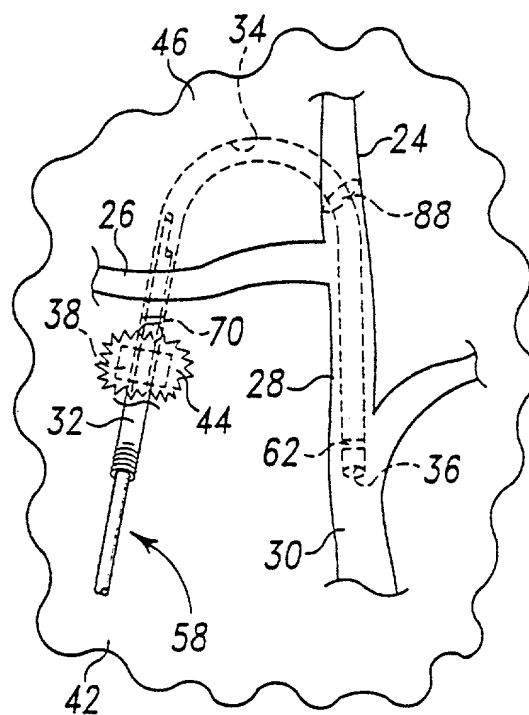


Fig. 9

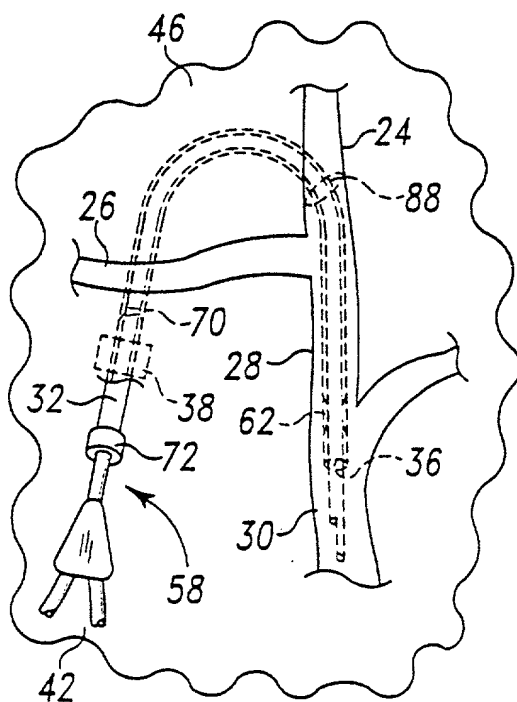


Fig. 10



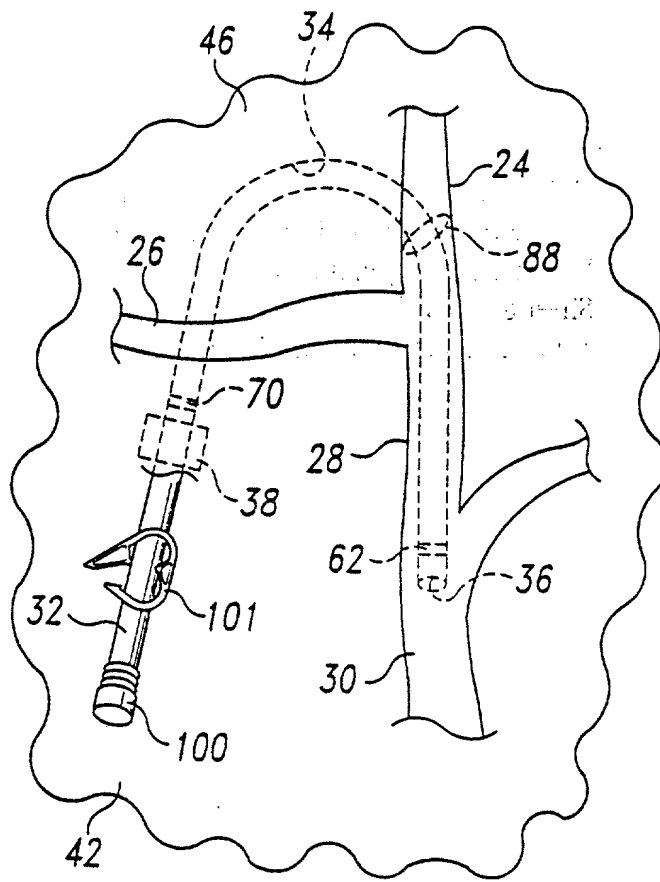


Fig. 11

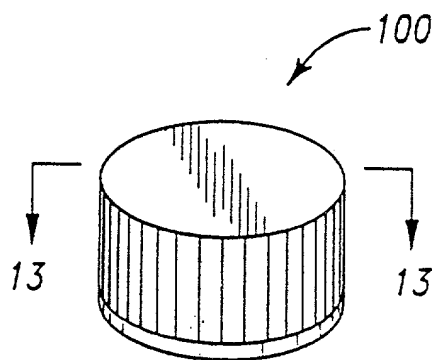


Fig. 12

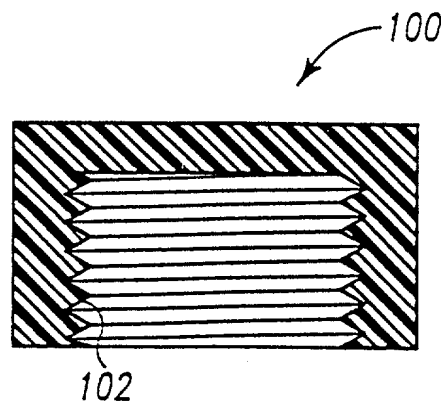
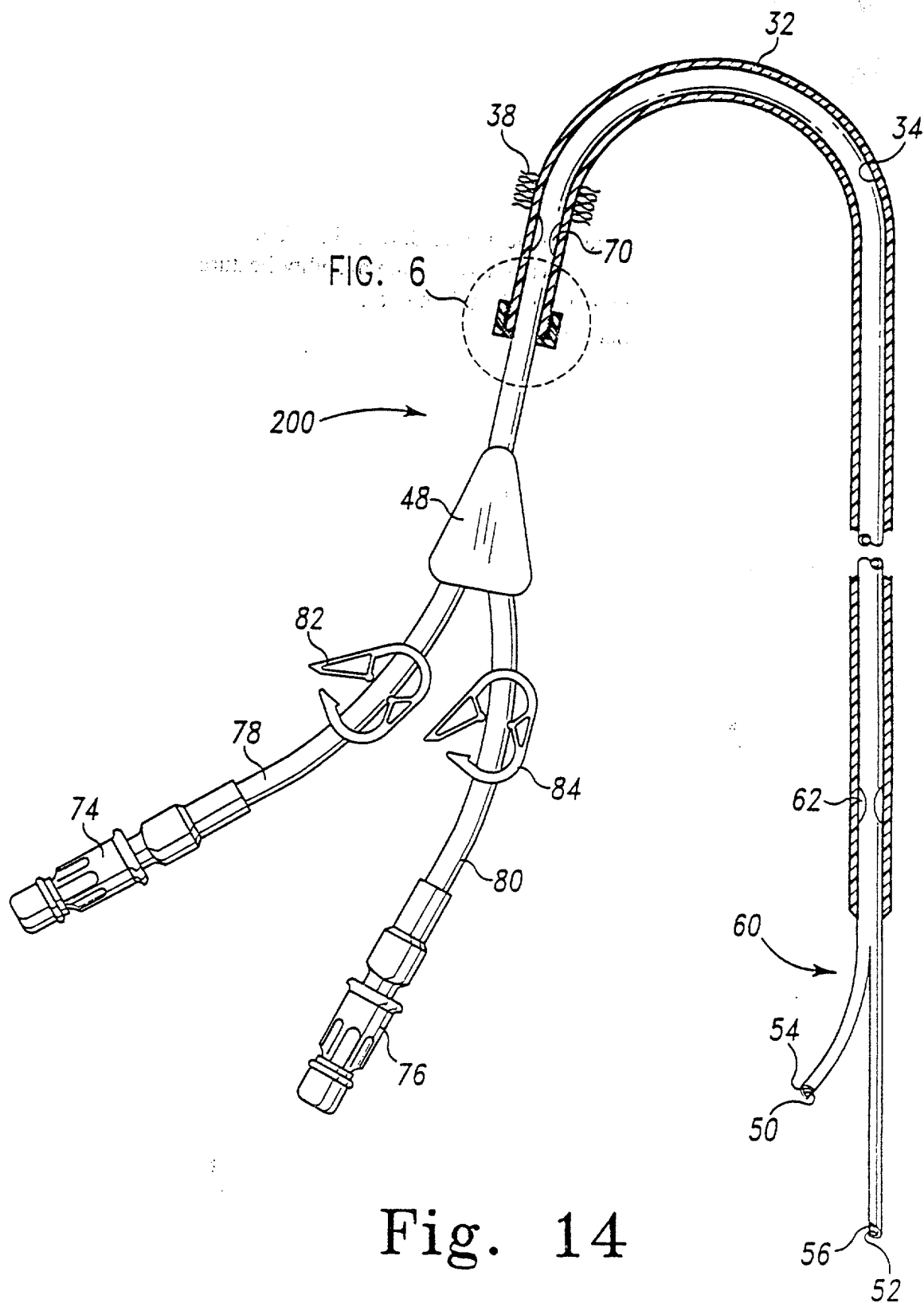


Fig. 13



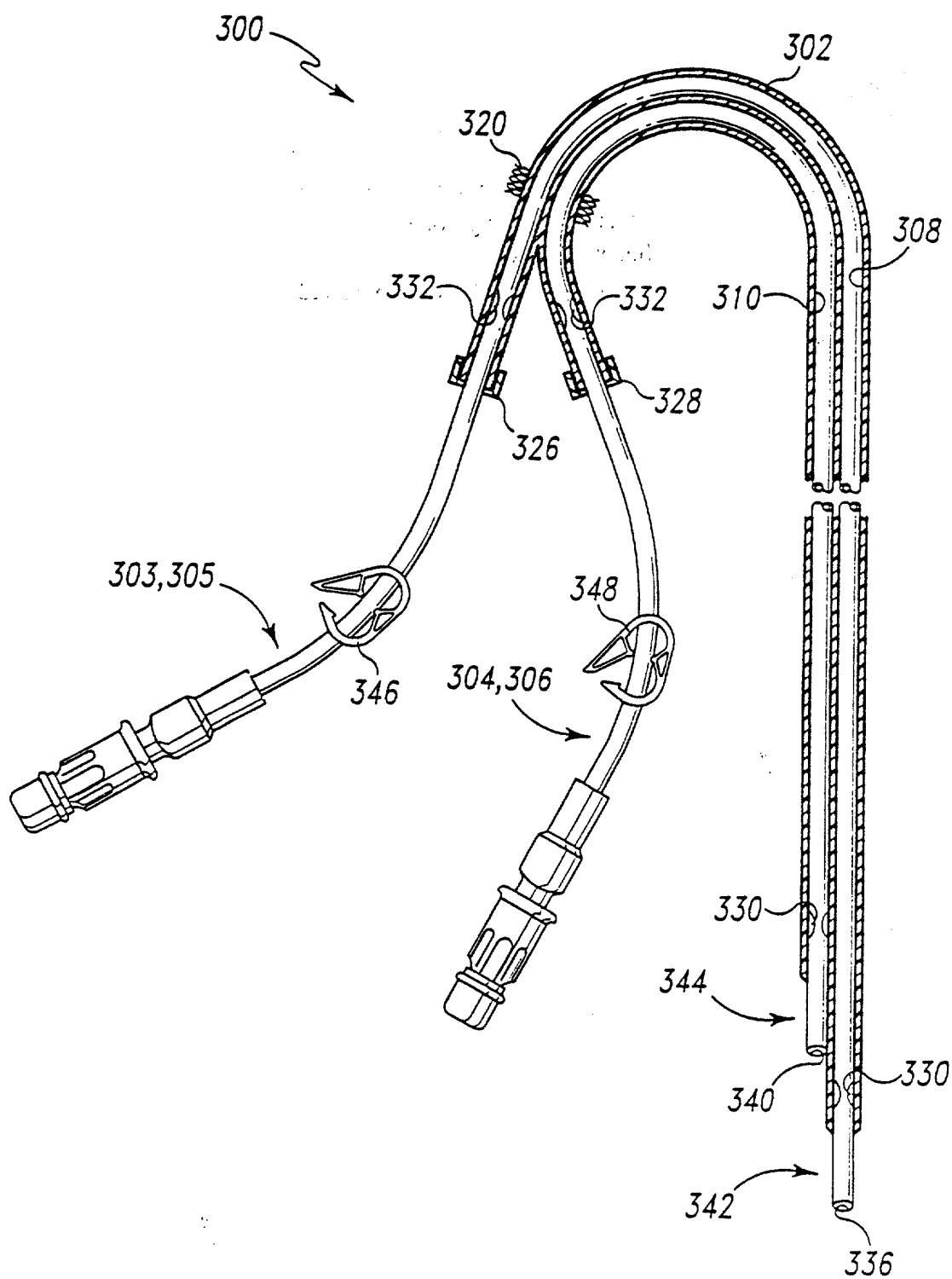
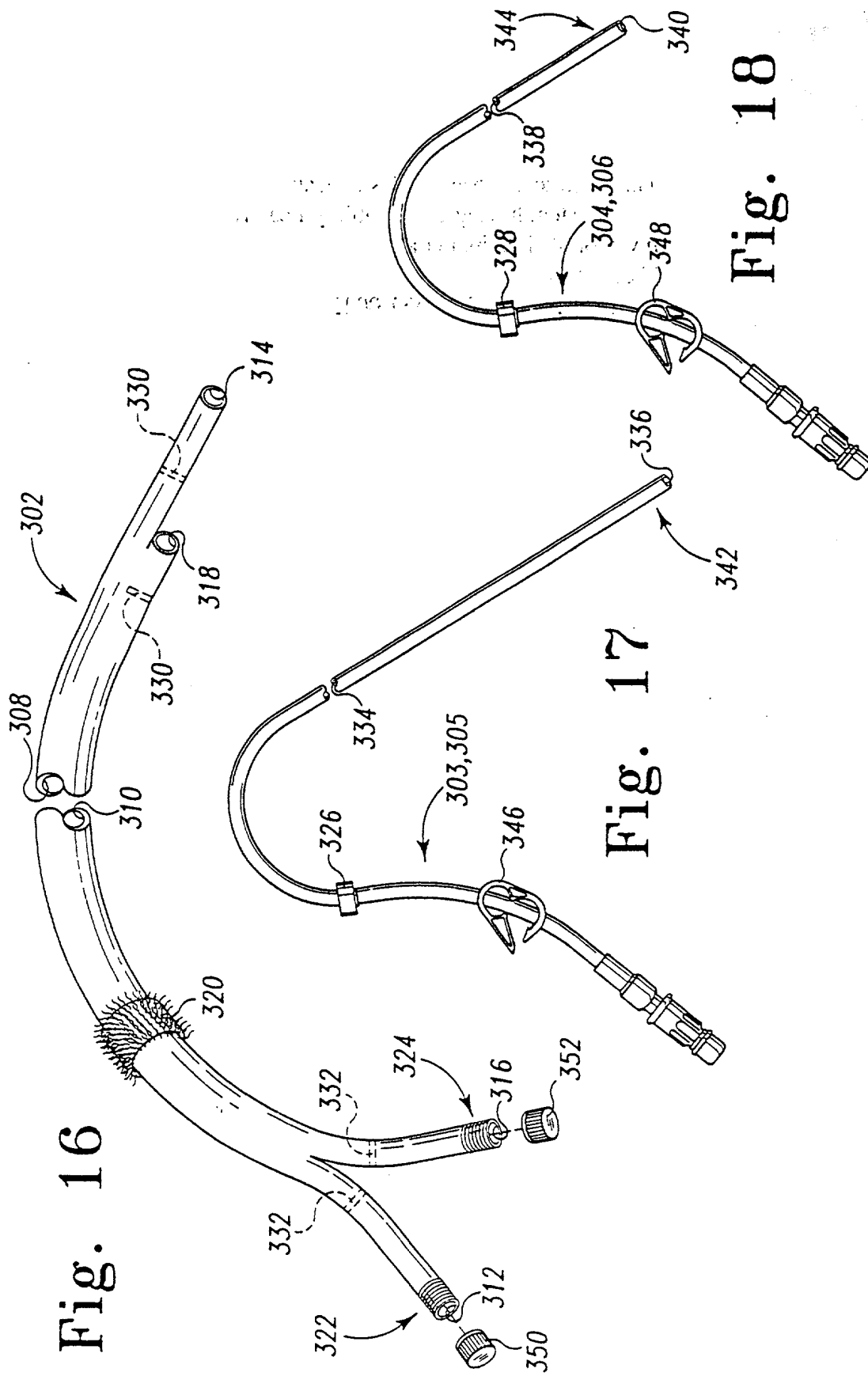


Fig. 15



300

320

302

308

332

310

328

326

303,305

348

346

304,306

330

344

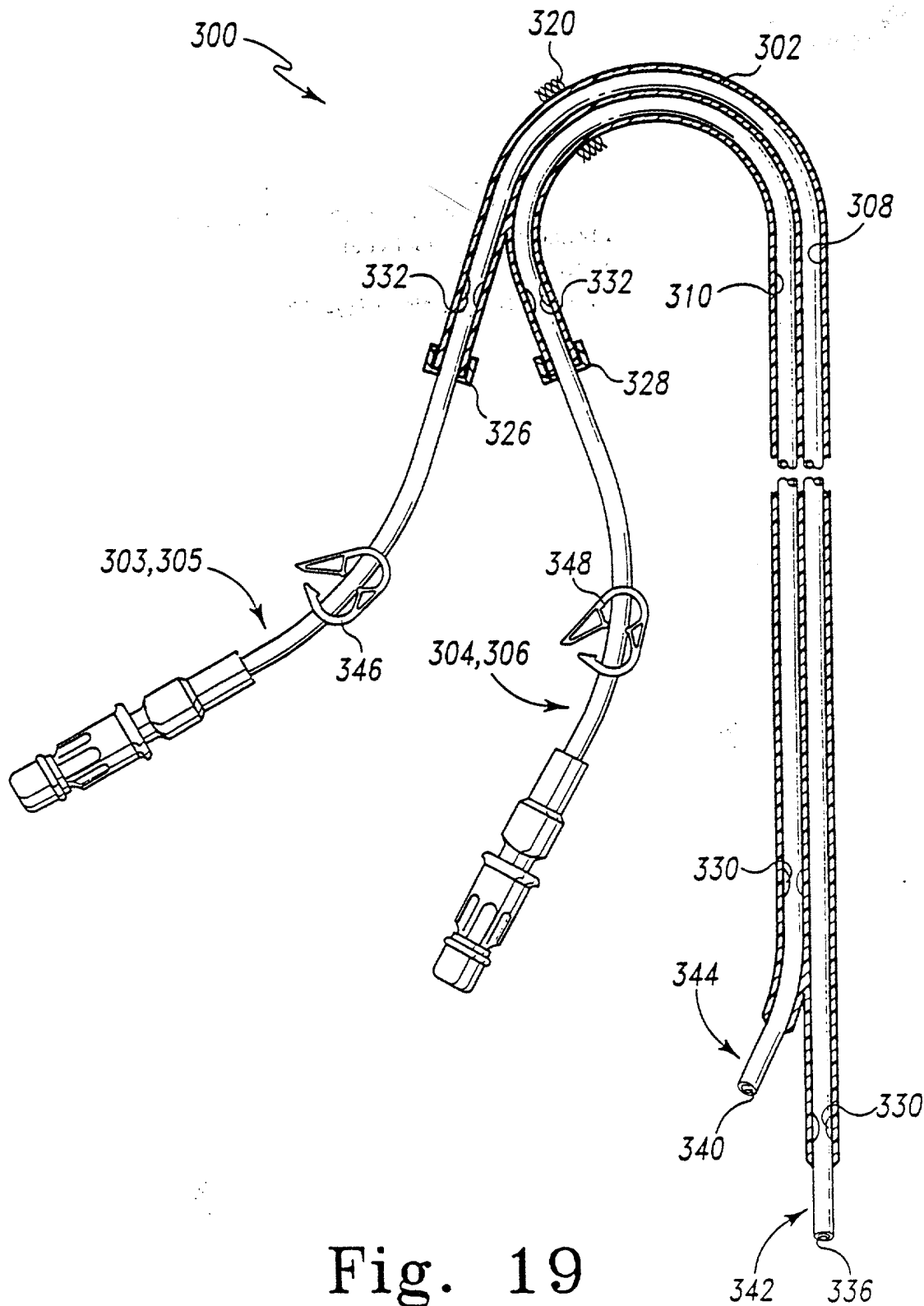
340

330

342

336

Fig. 19



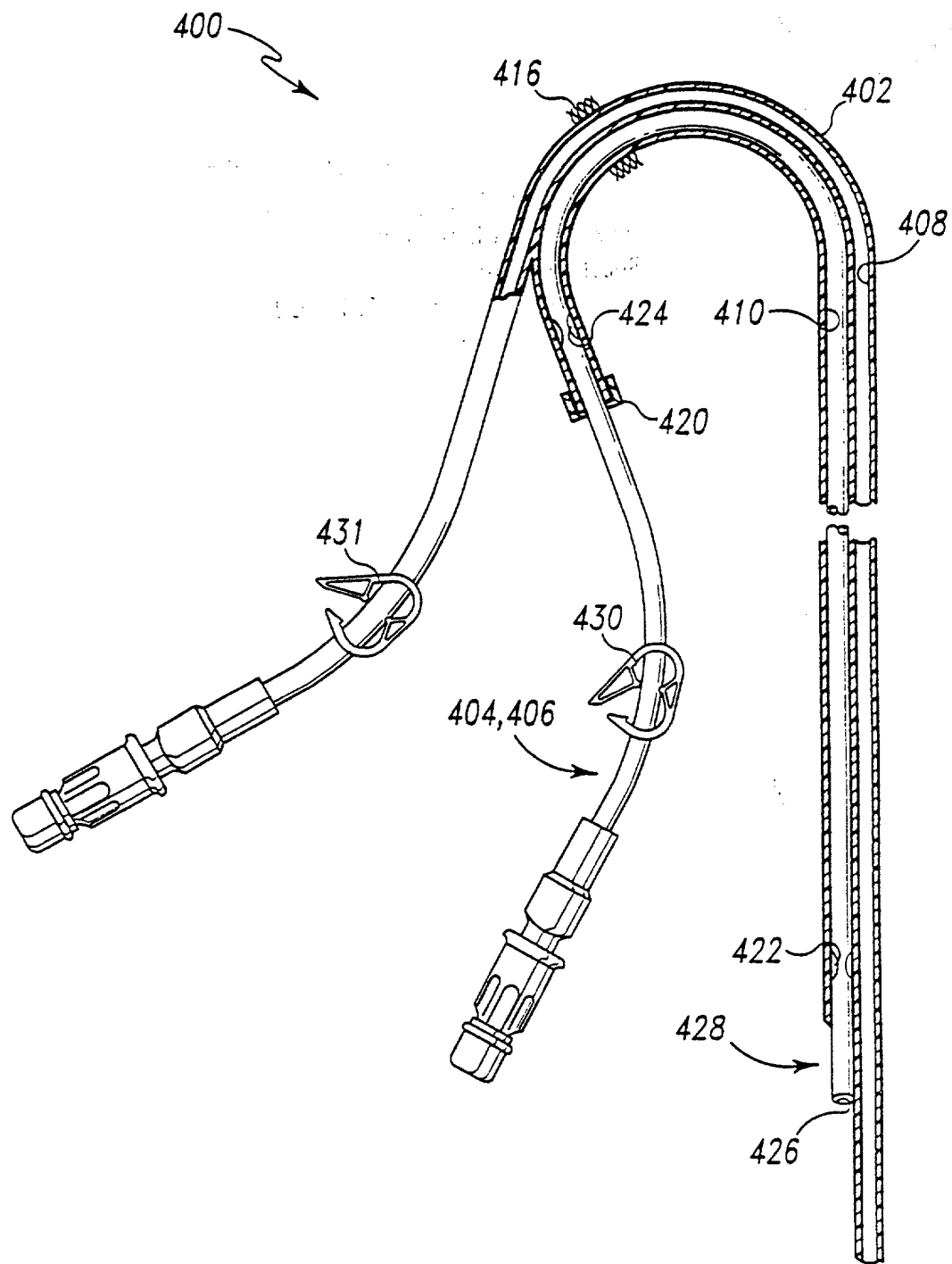


Fig. 20

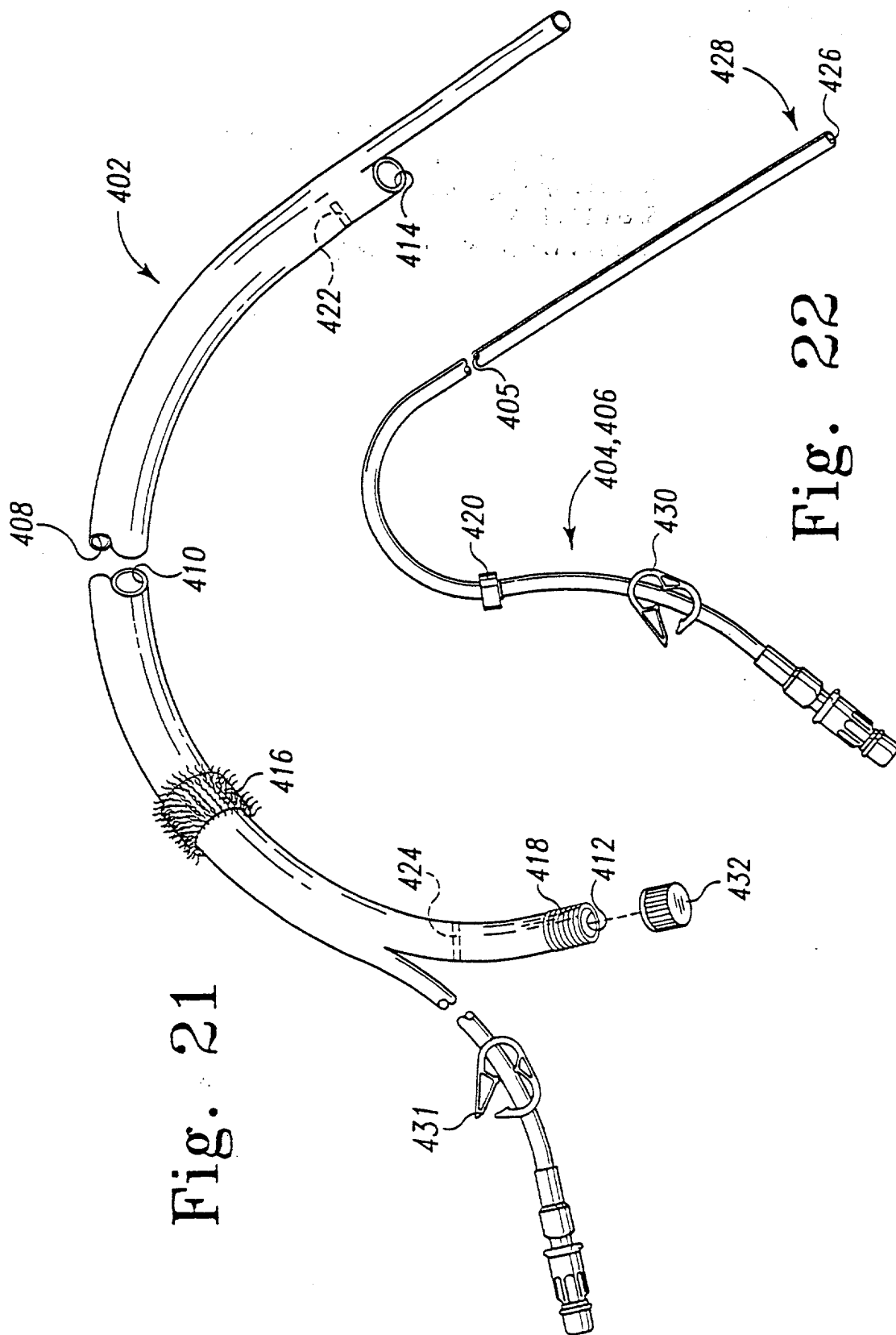


Fig. 21

Fig. 22

400

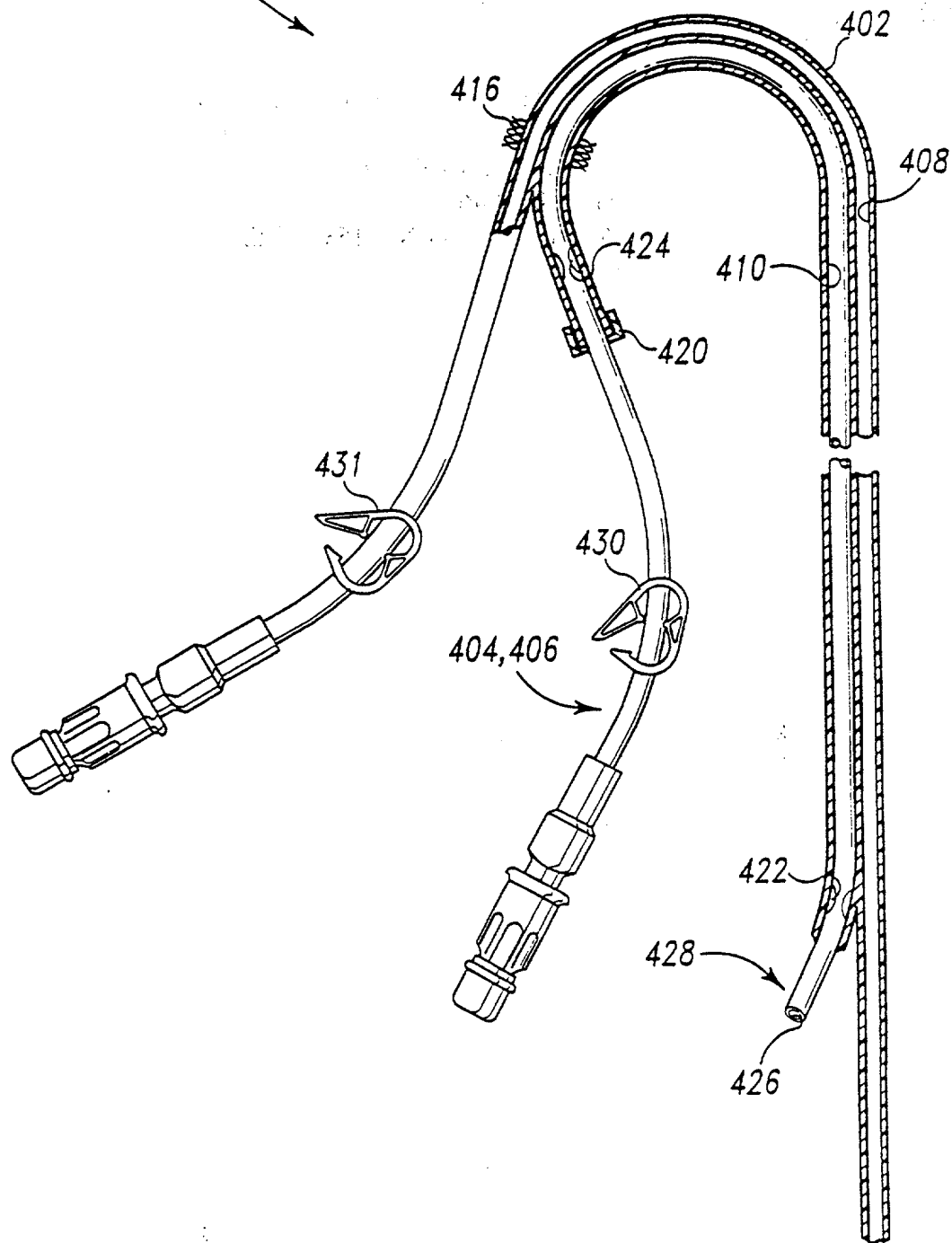


Fig. 23



400

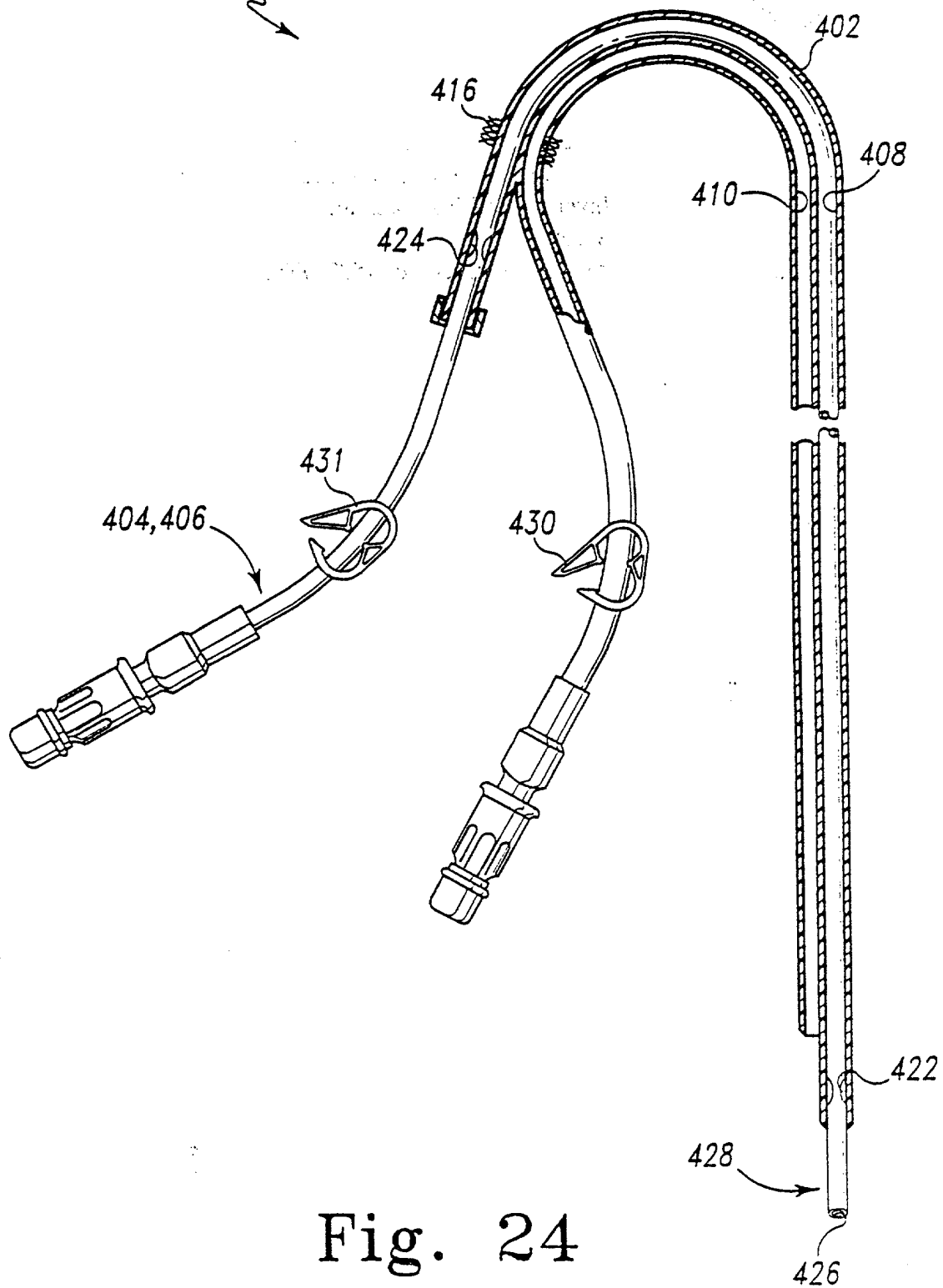


Fig. 24

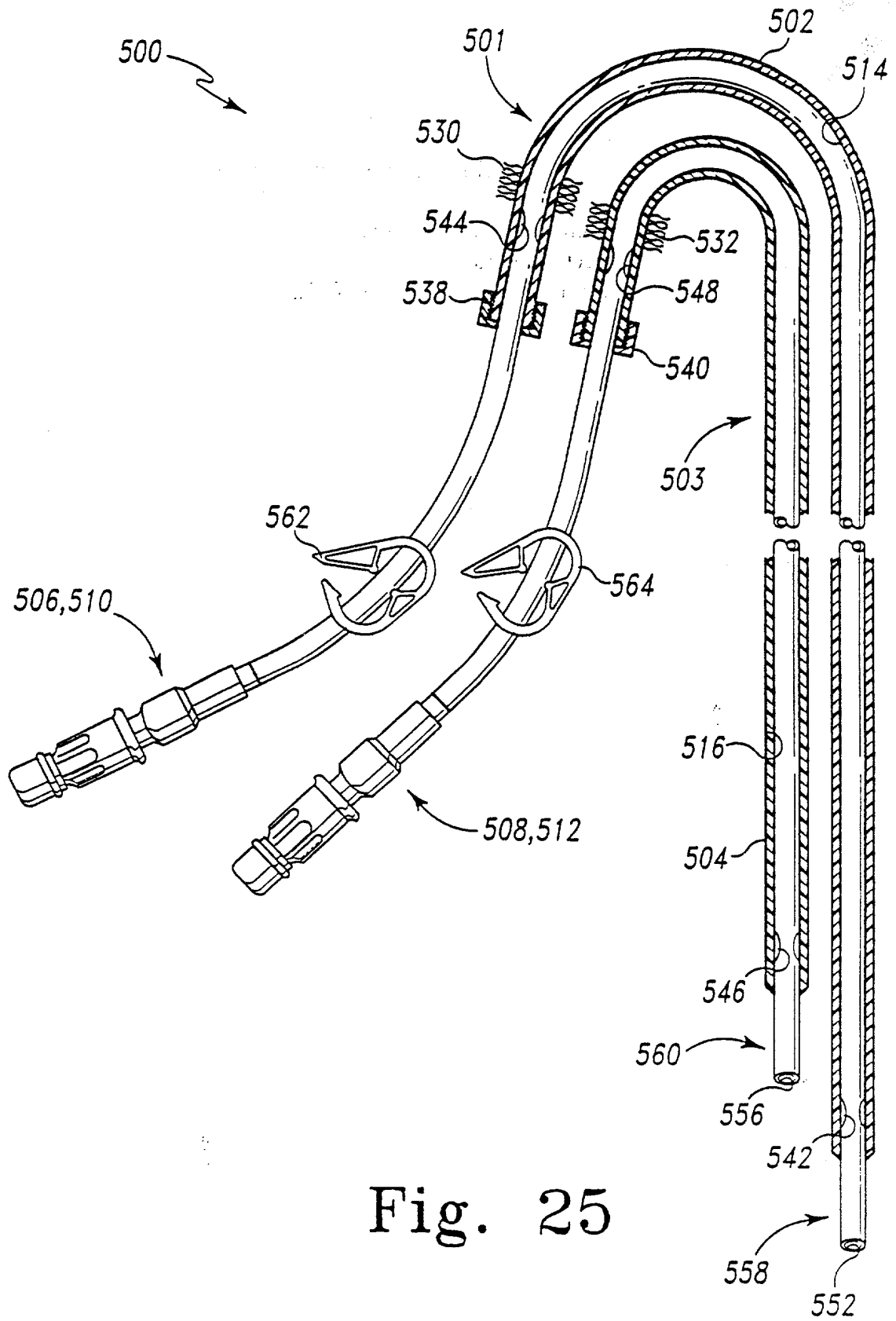


Fig. 25

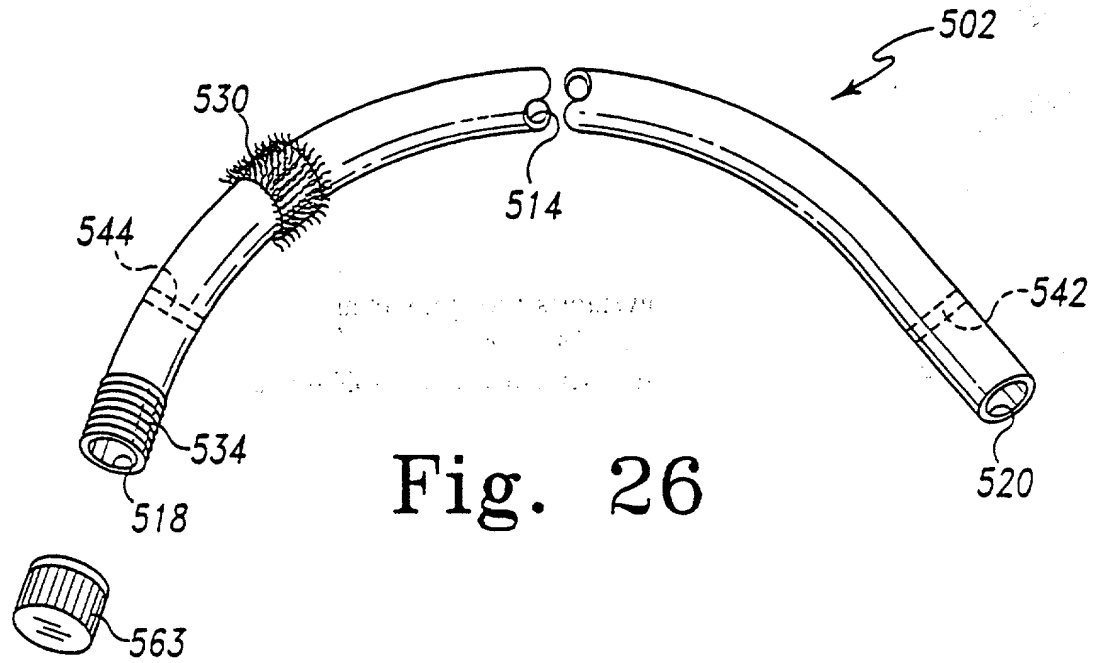


Fig. 26

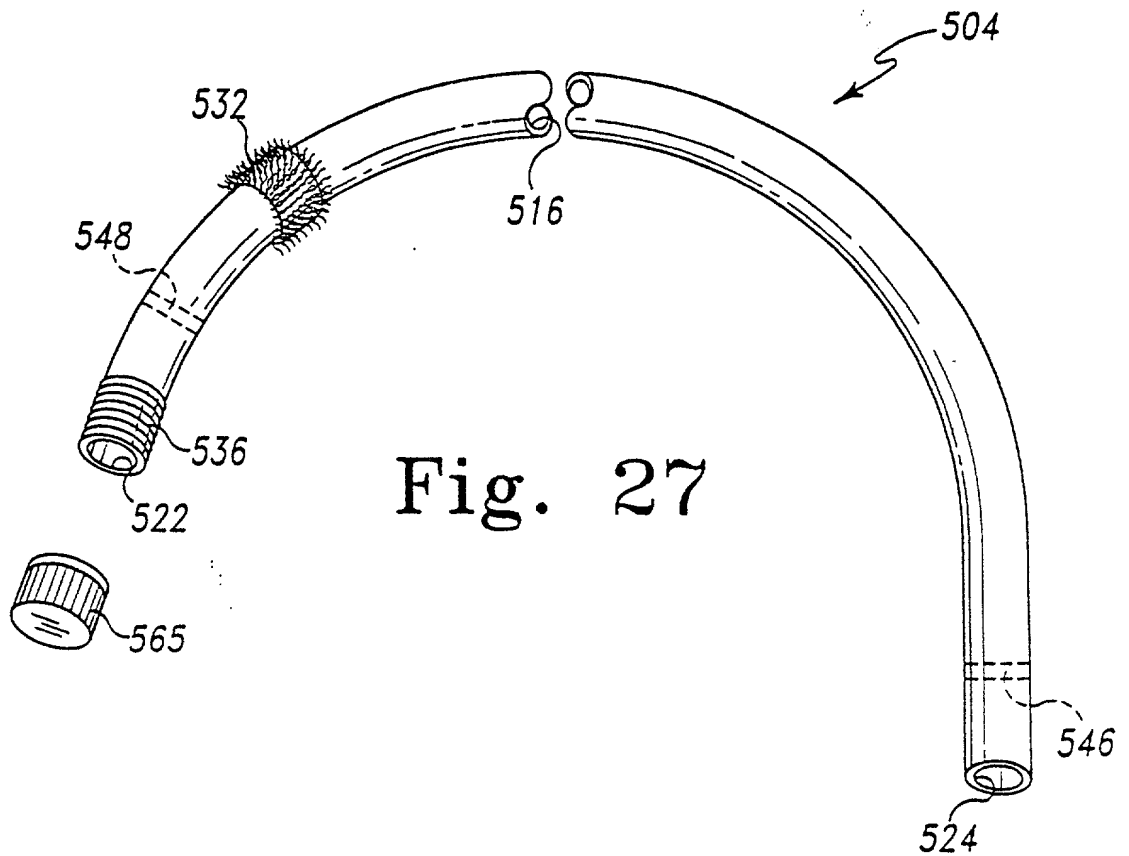


Fig. 27

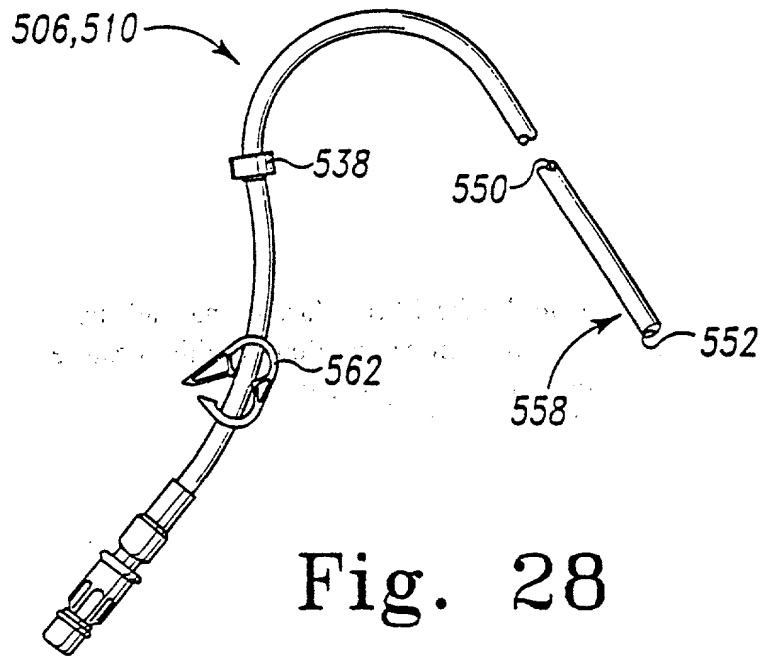


Fig. 28

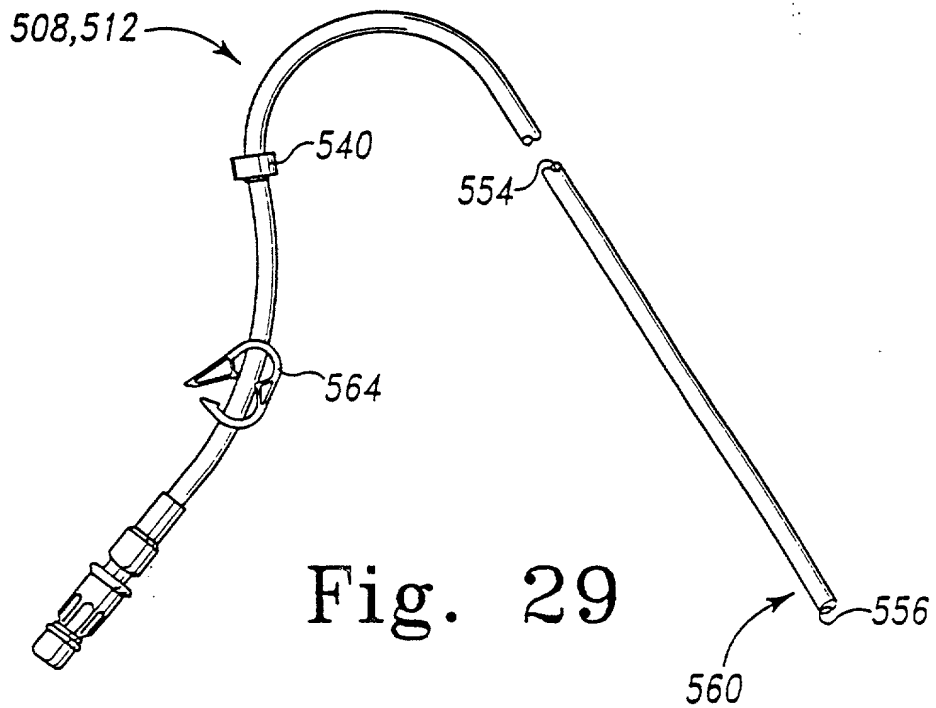


Fig. 29

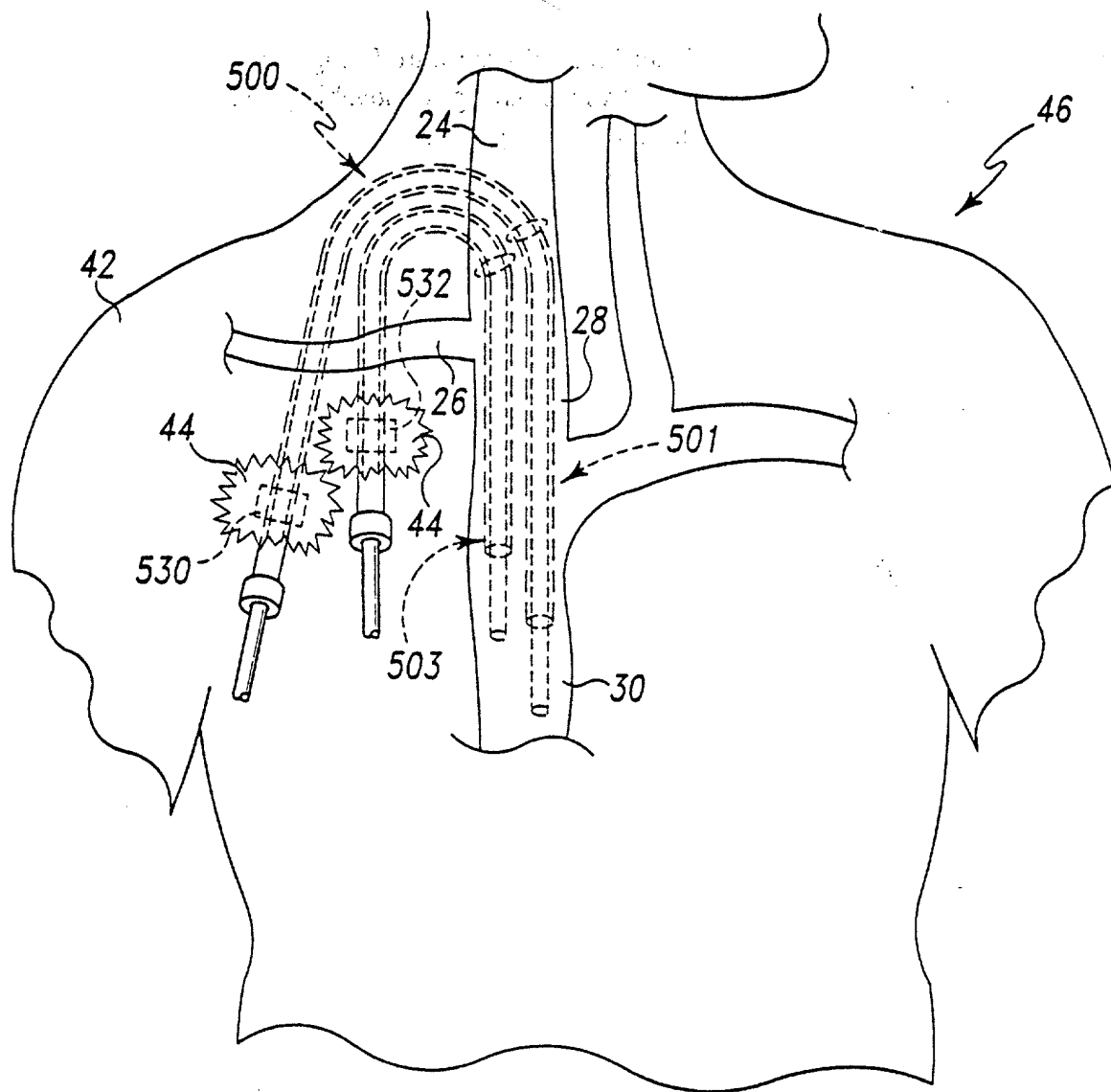


Fig. 30

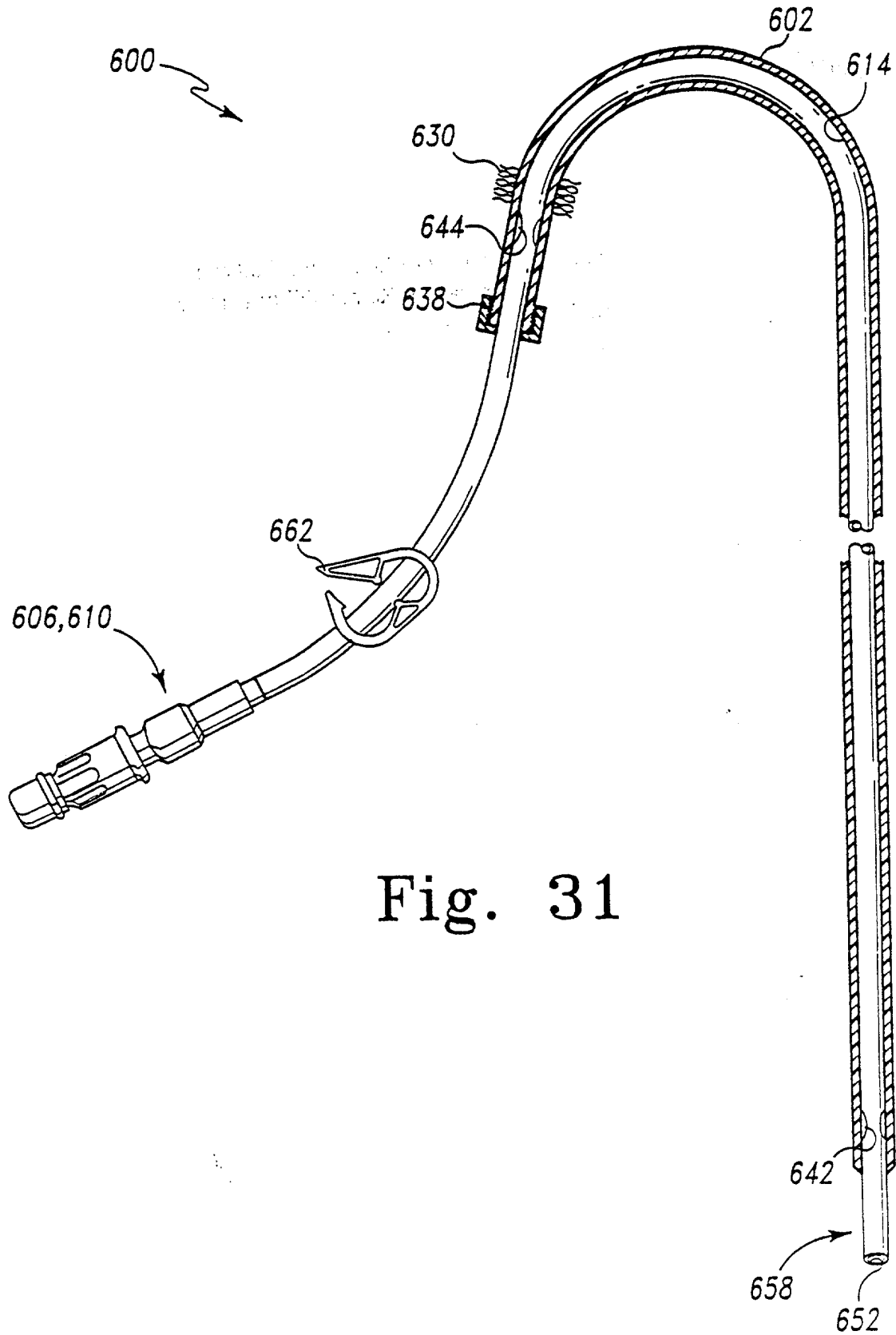
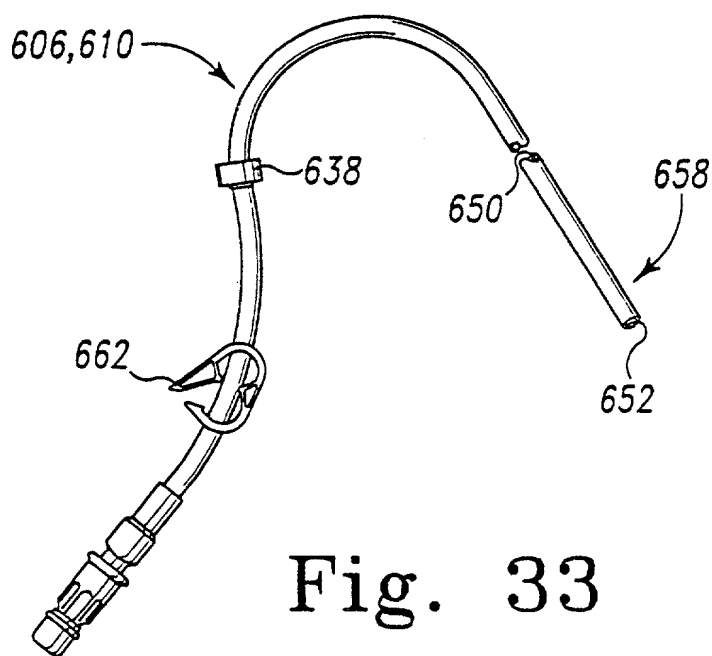
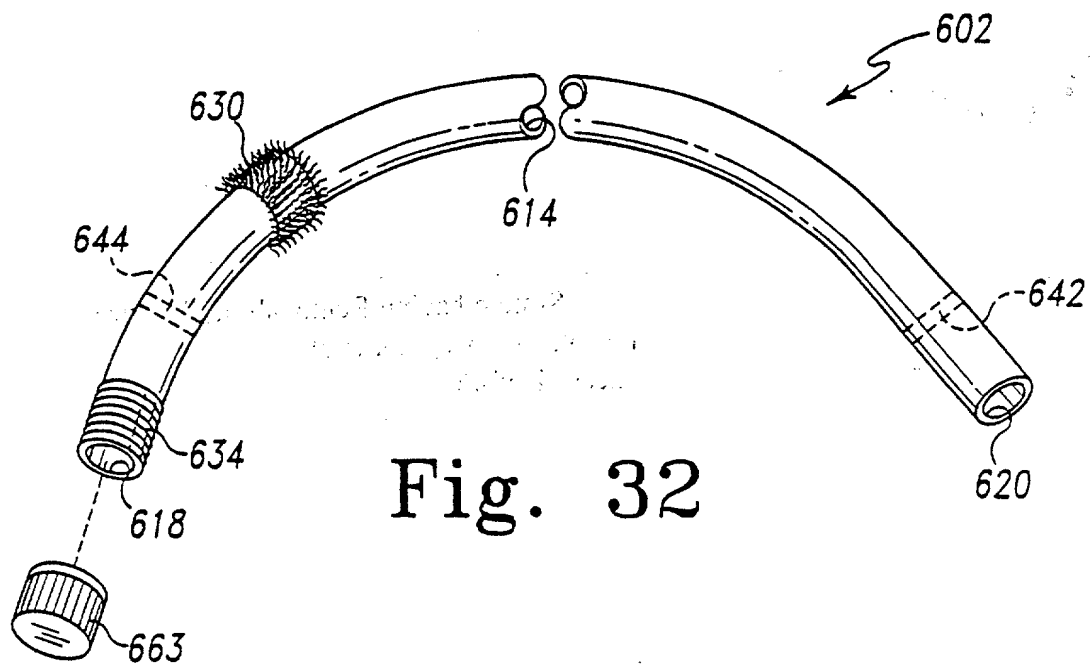


Fig. 31



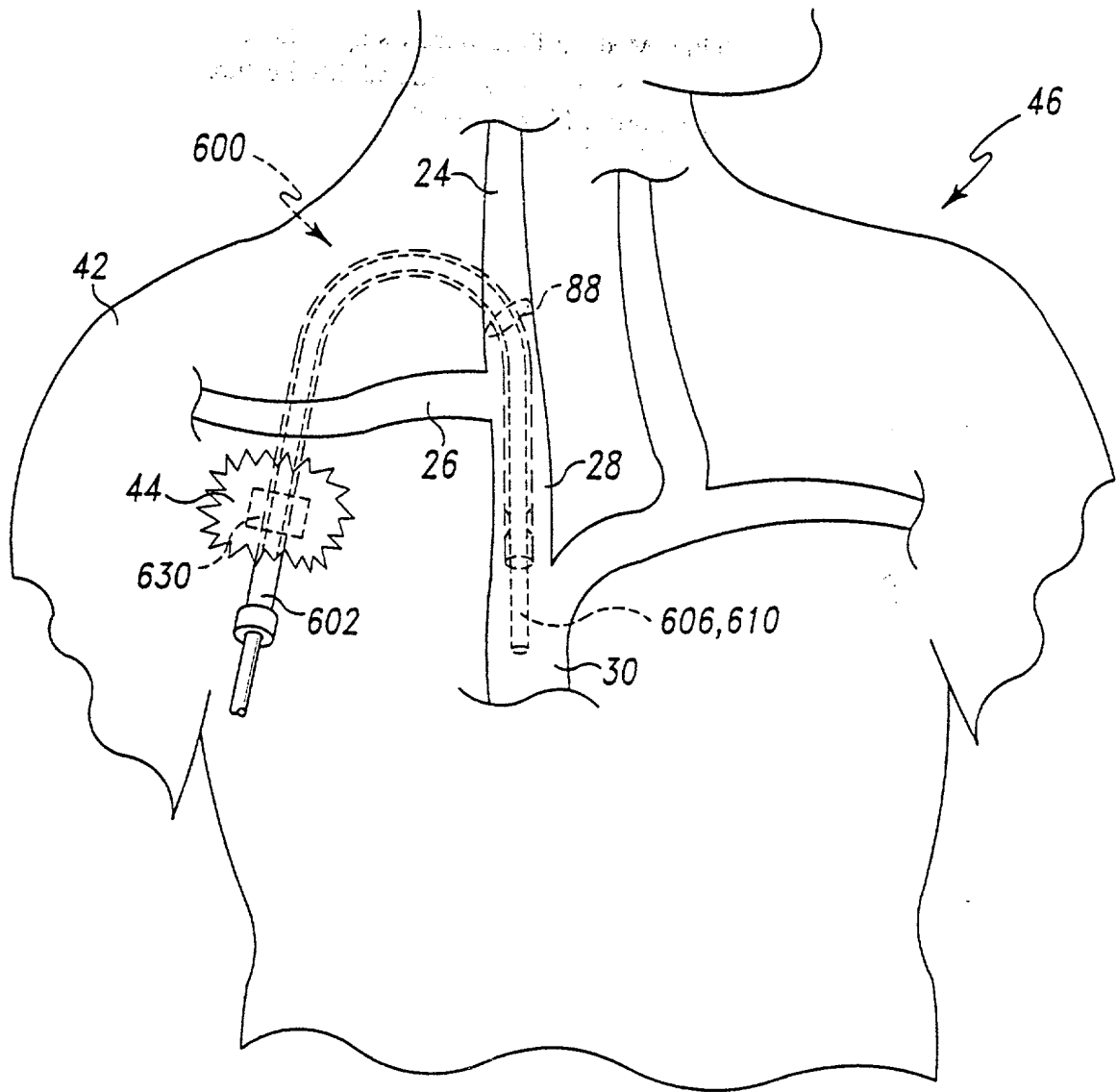


Fig. 34



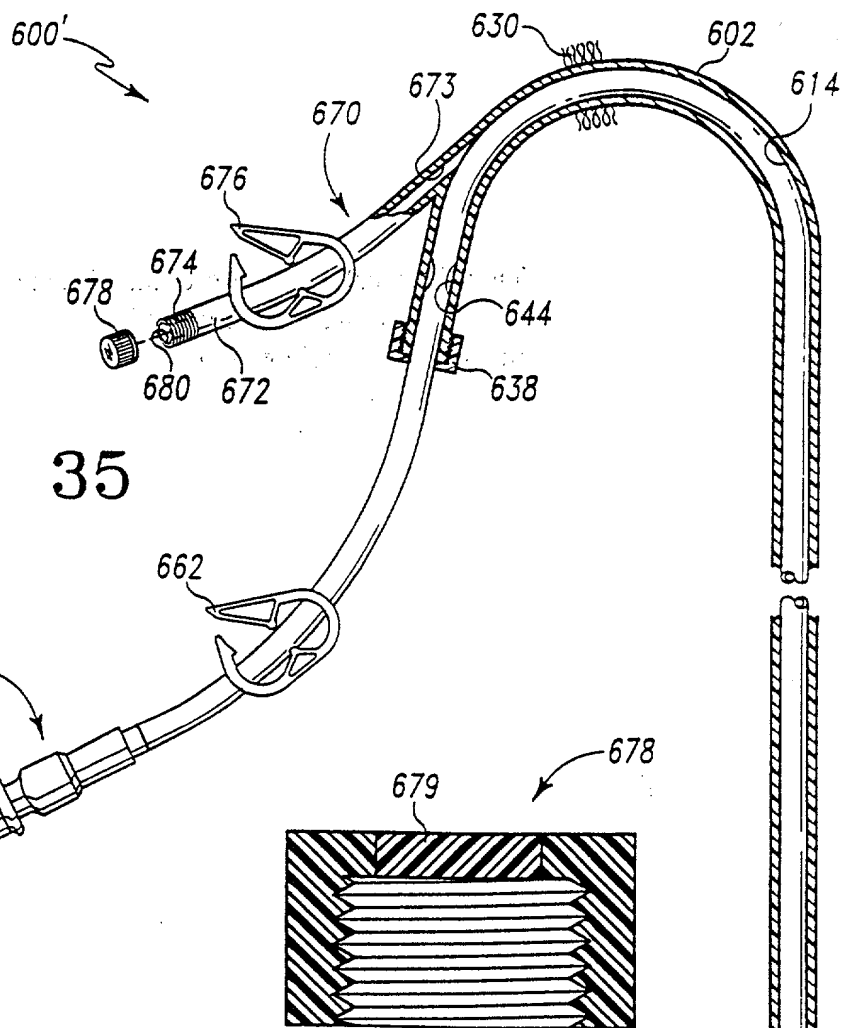


Fig. 35

Fig. 37

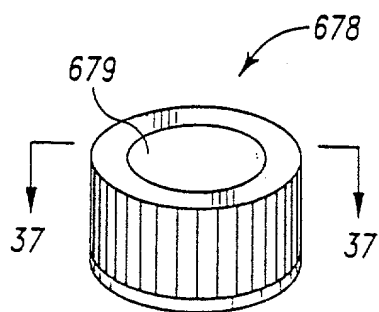


Fig. 36

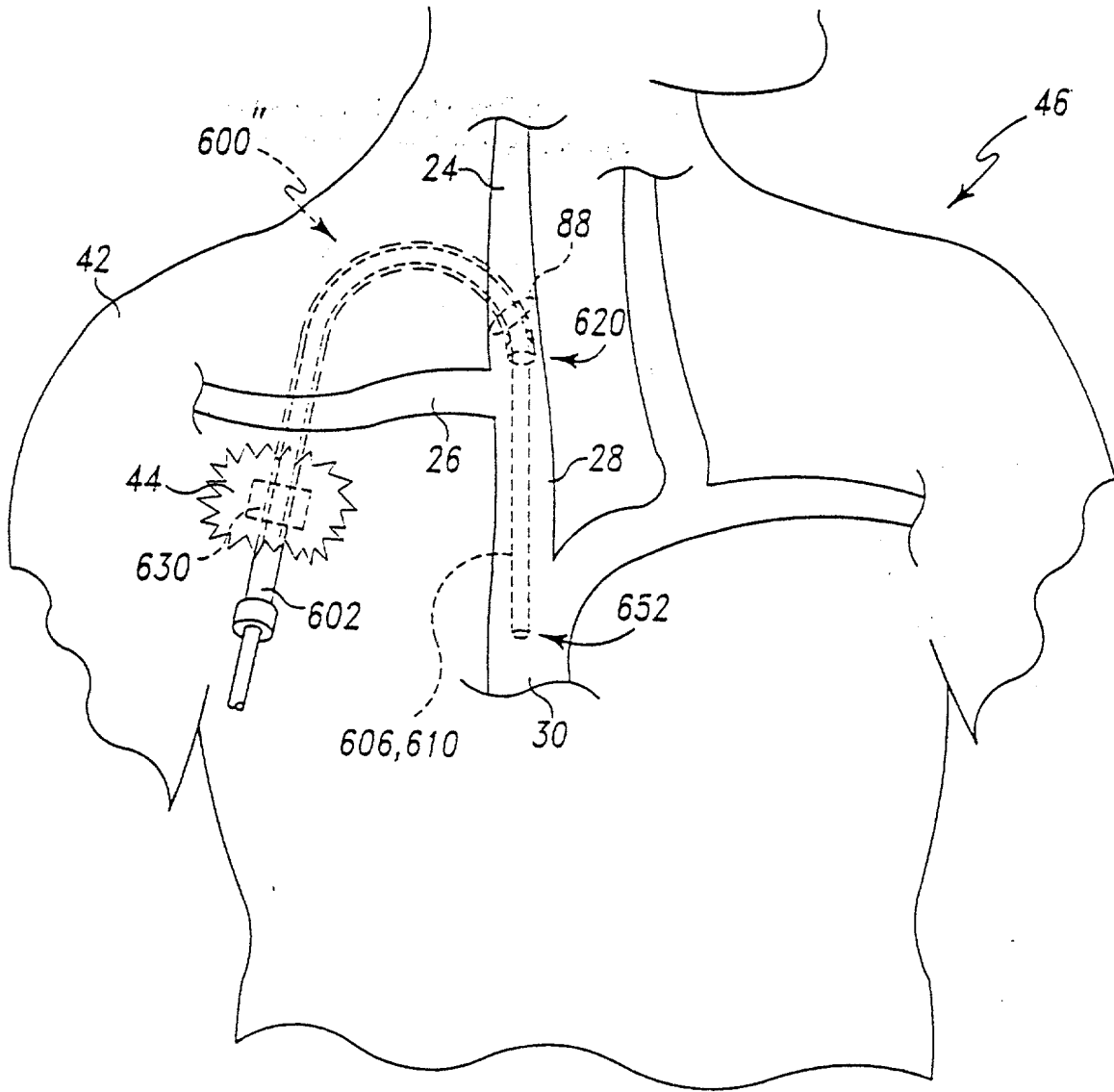


Fig. 38

FIG. 1 is a schematic diagram of a human torso showing the placement of a catheter system for a minimally-invasive approach to the thoracic aorta. The diagram includes labels for the thoracic aorta (22), descending aorta (24), abdominal aorta (26), and aorta bifurcation (28). A catheter (42) is shown with a distal end (44) positioned near the thoracic aorta. A dashed line (600) indicates the path of the catheter. Other labels include 46, 620, 630, 602, 606, 30, 652, and 88.

Fig. 38A

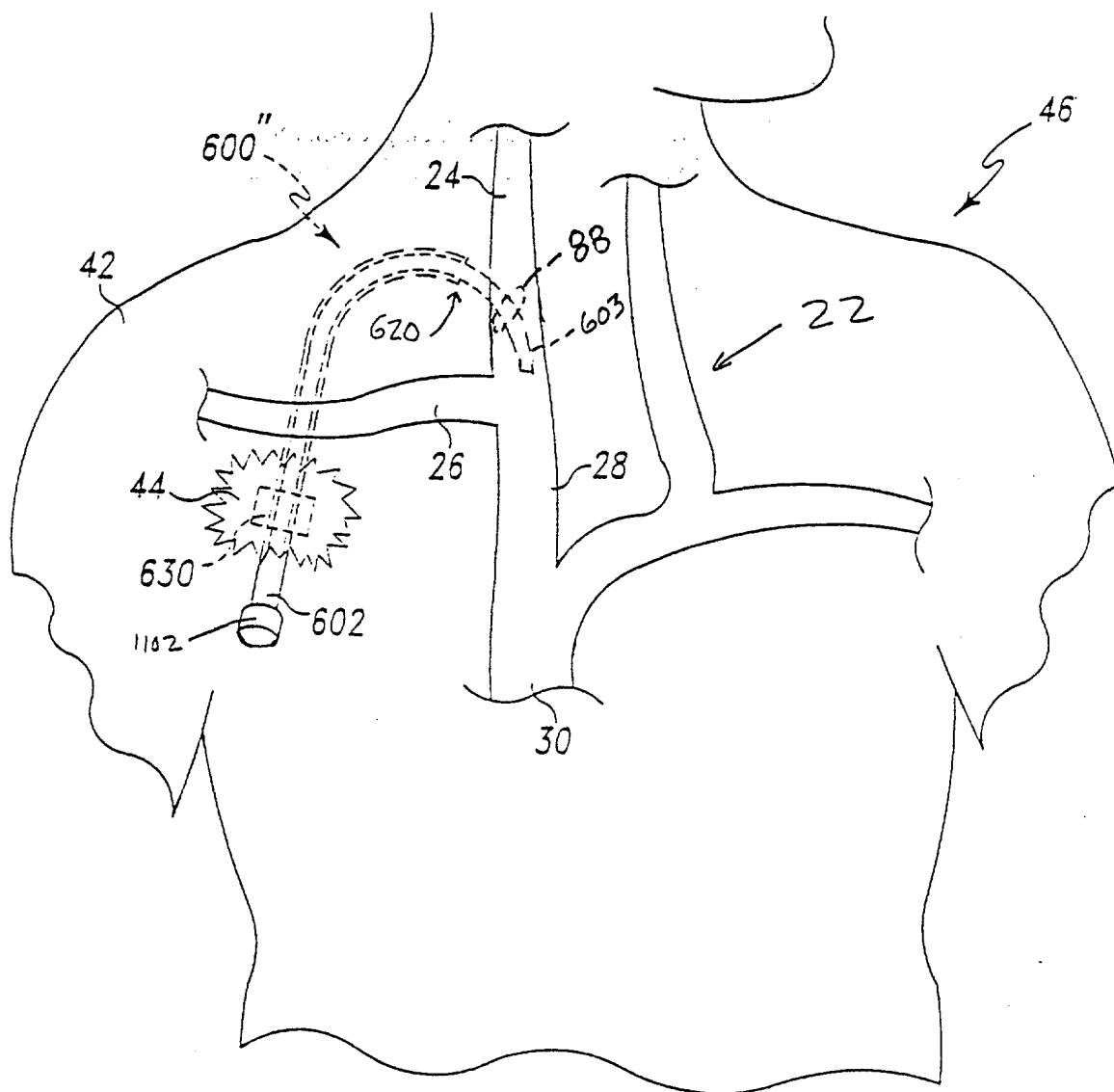
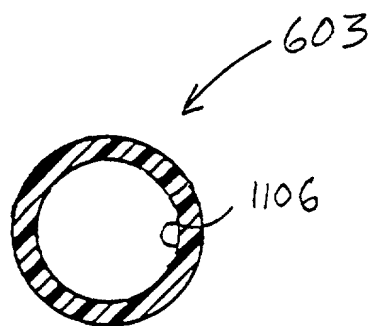
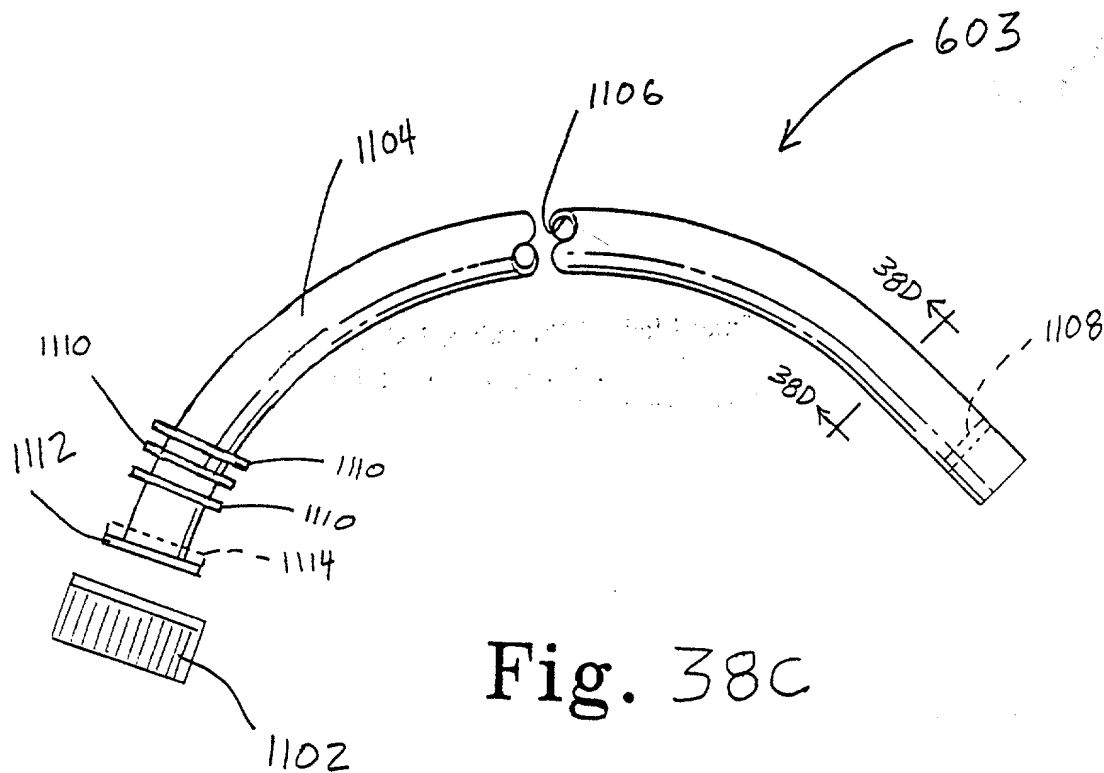
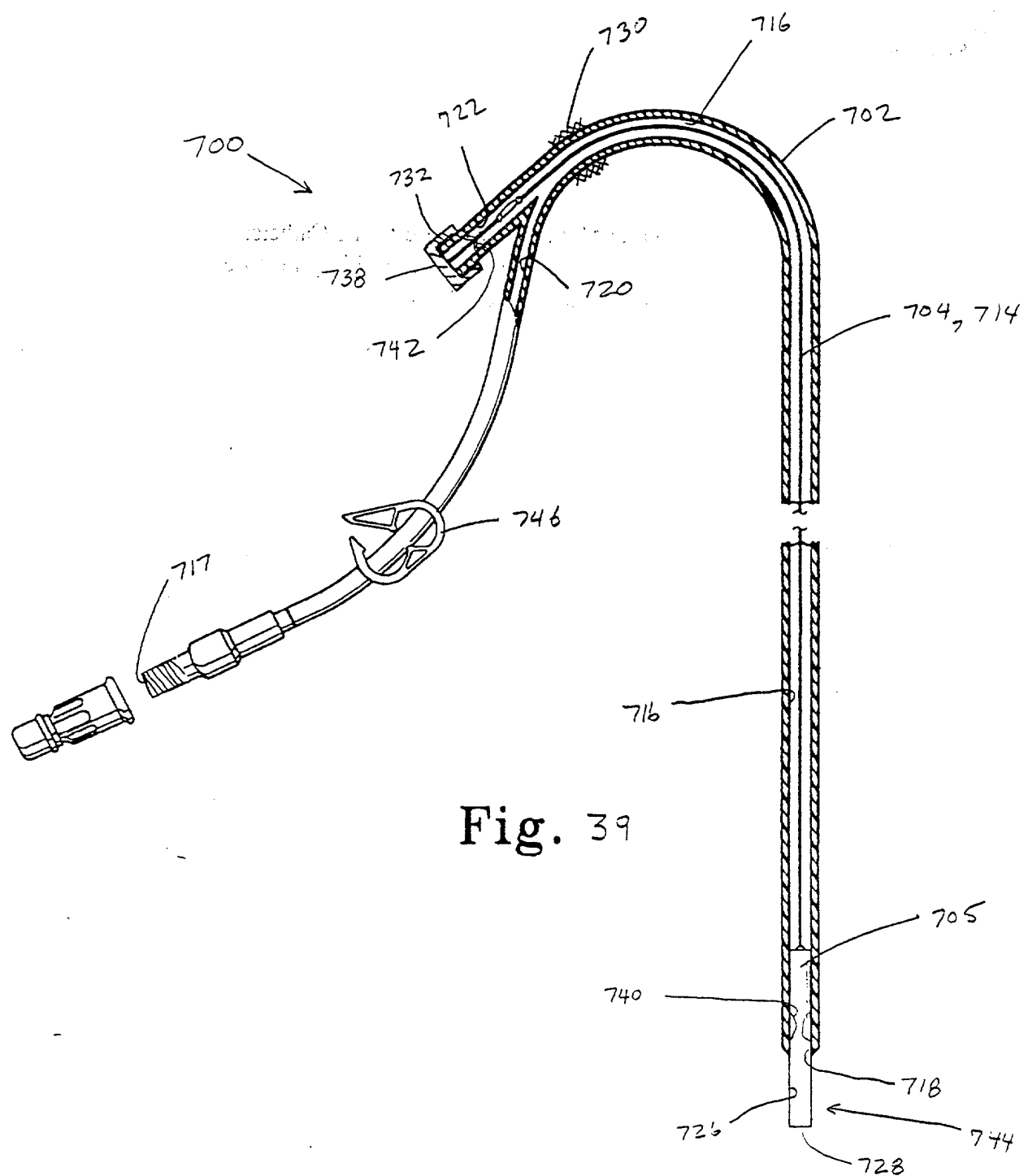


Fig. 38B





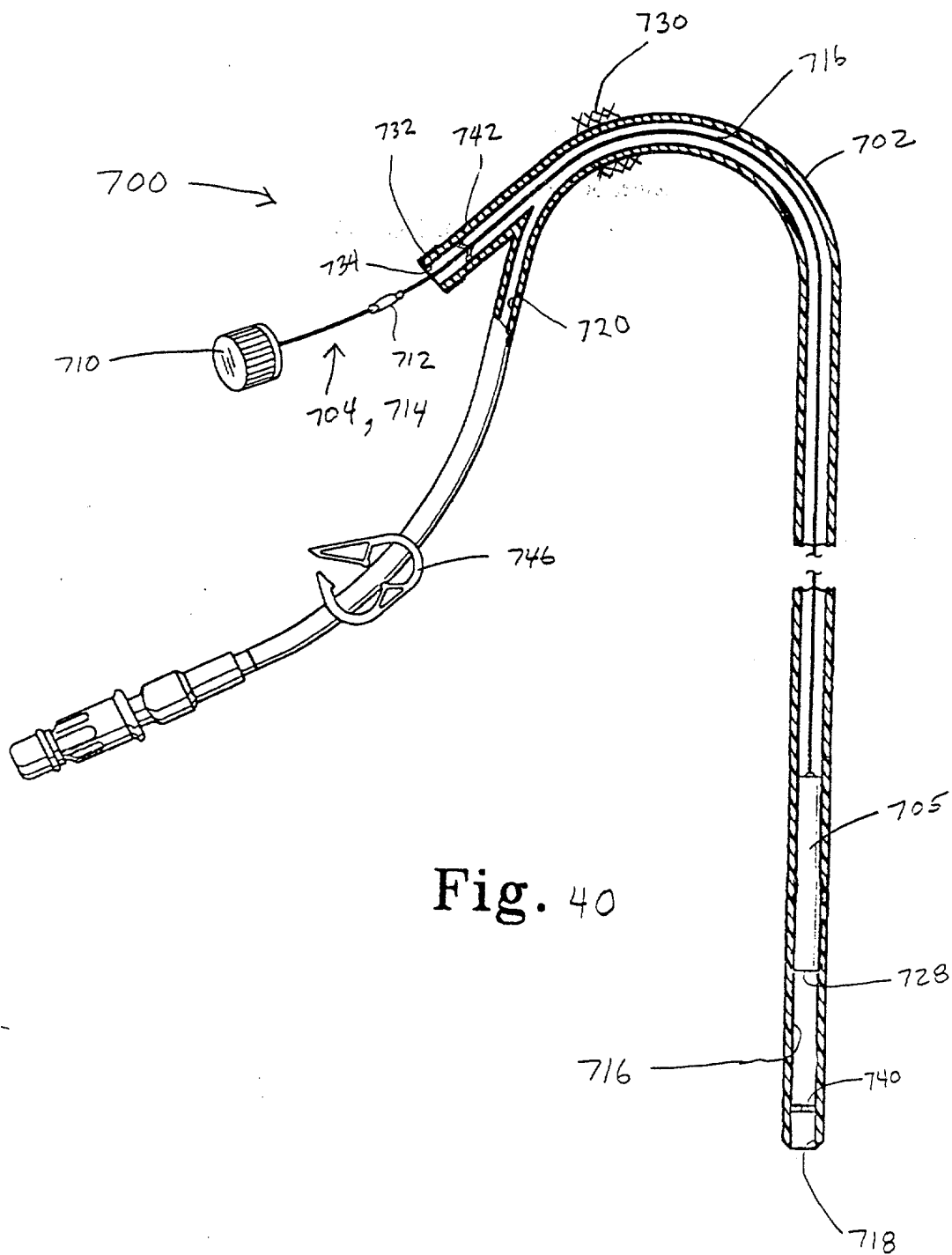
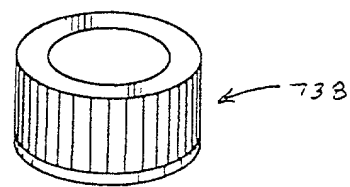
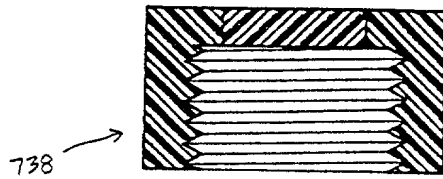
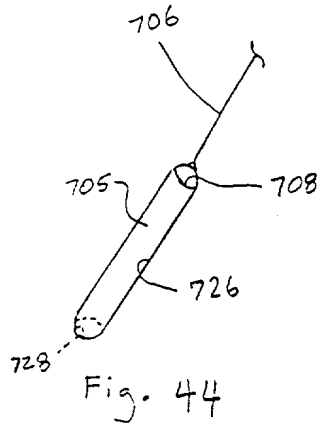
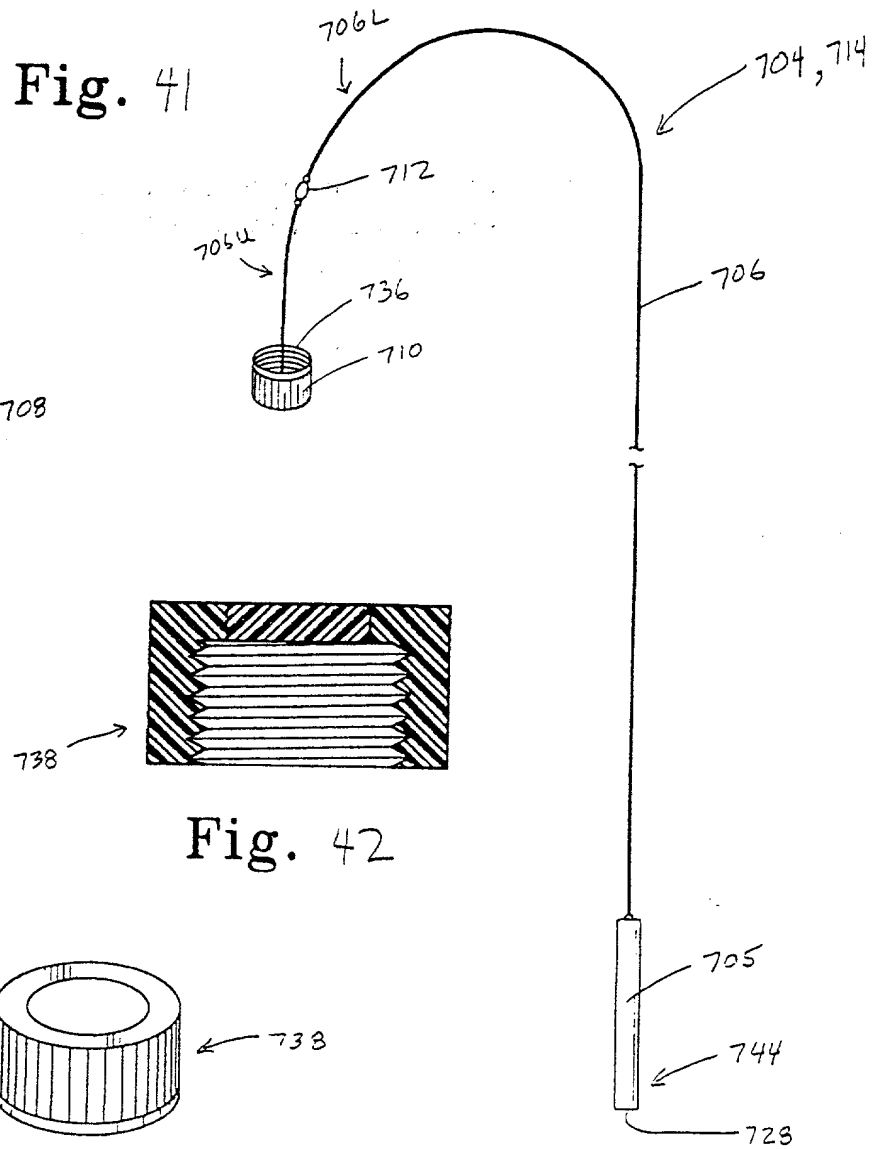


Fig. 40





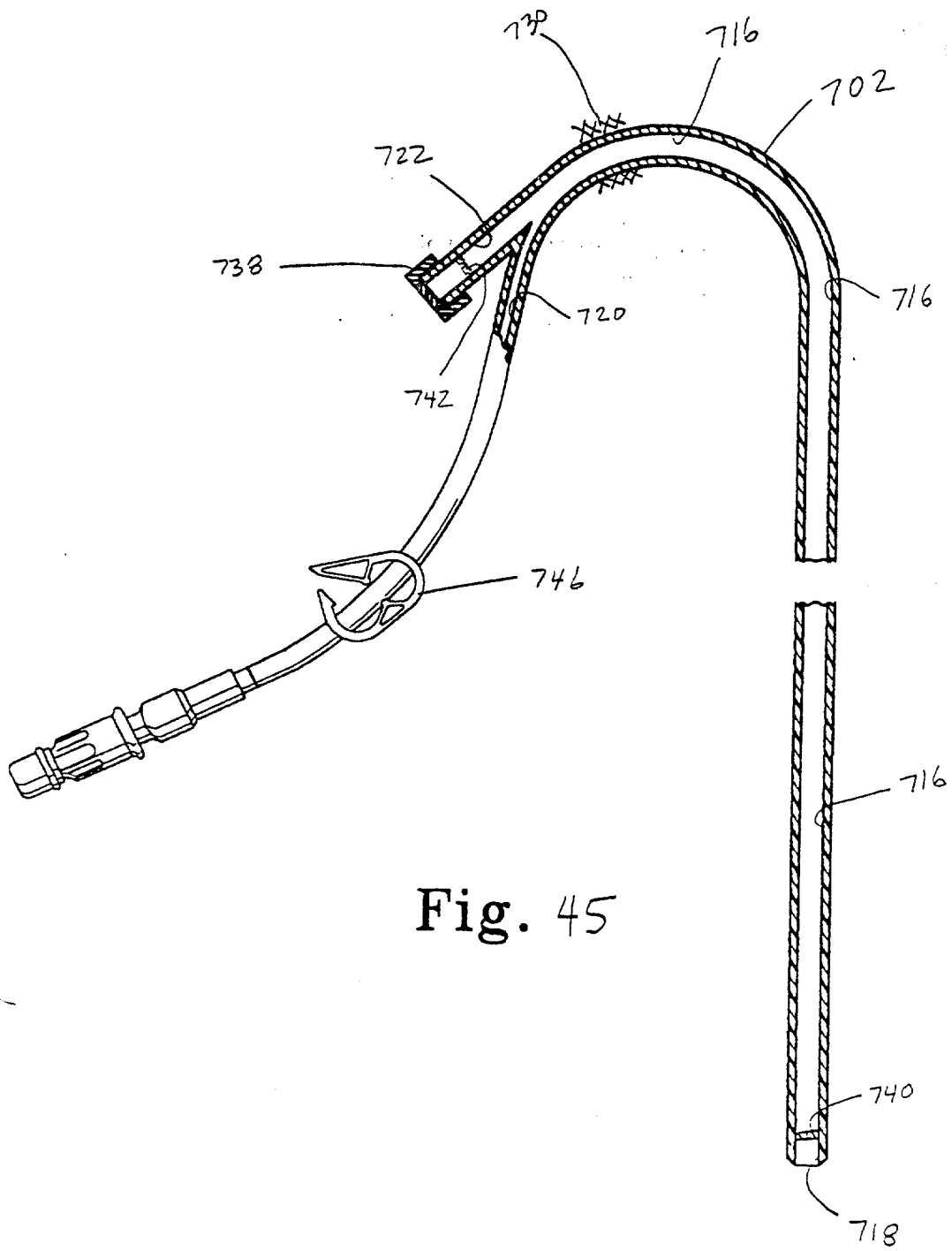


Fig. 45

100527.030403

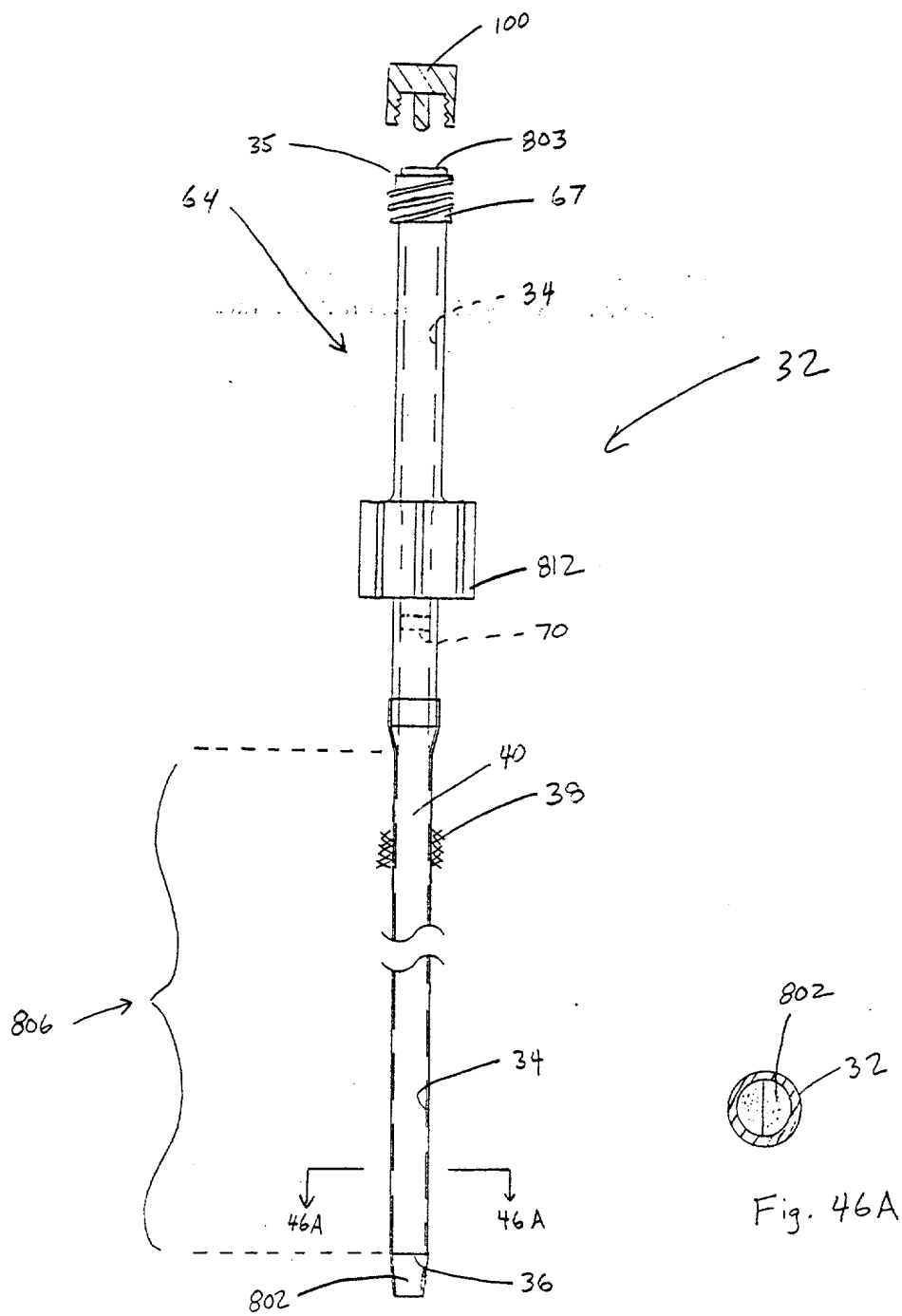
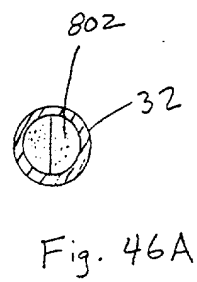


Fig. 46



204000-03000T

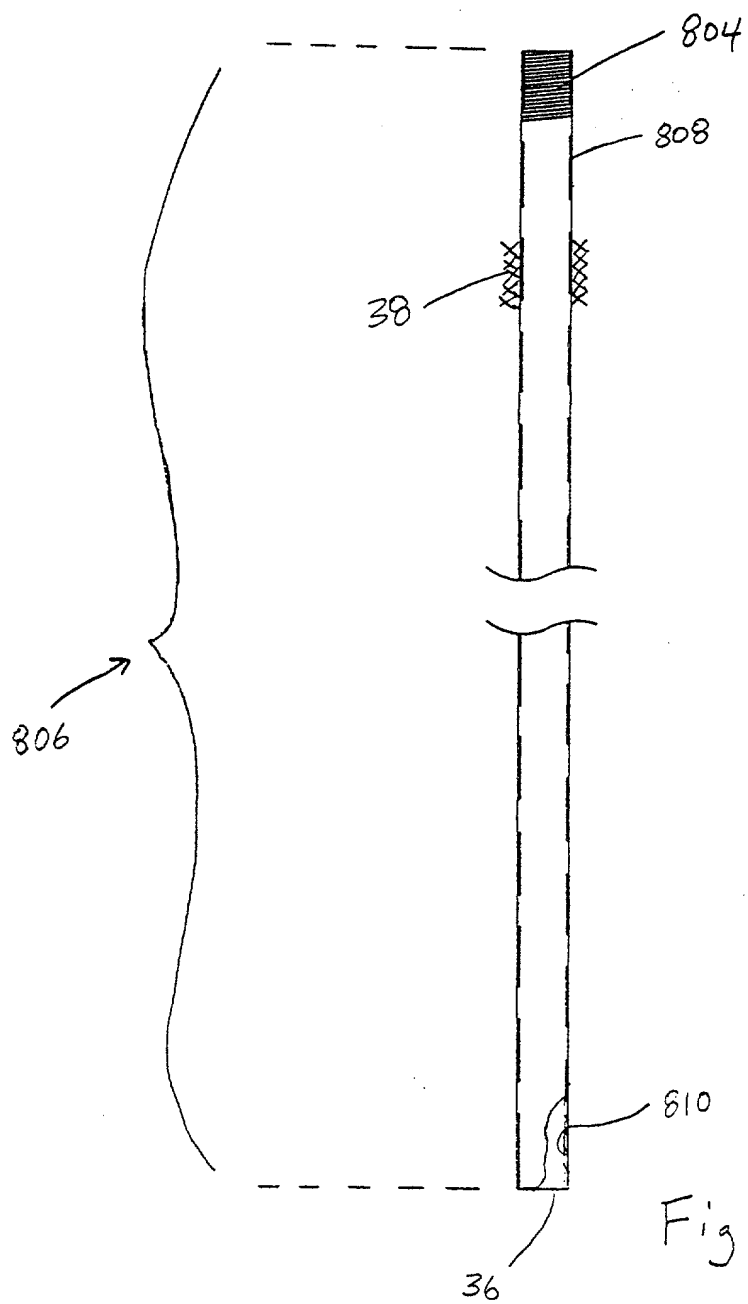
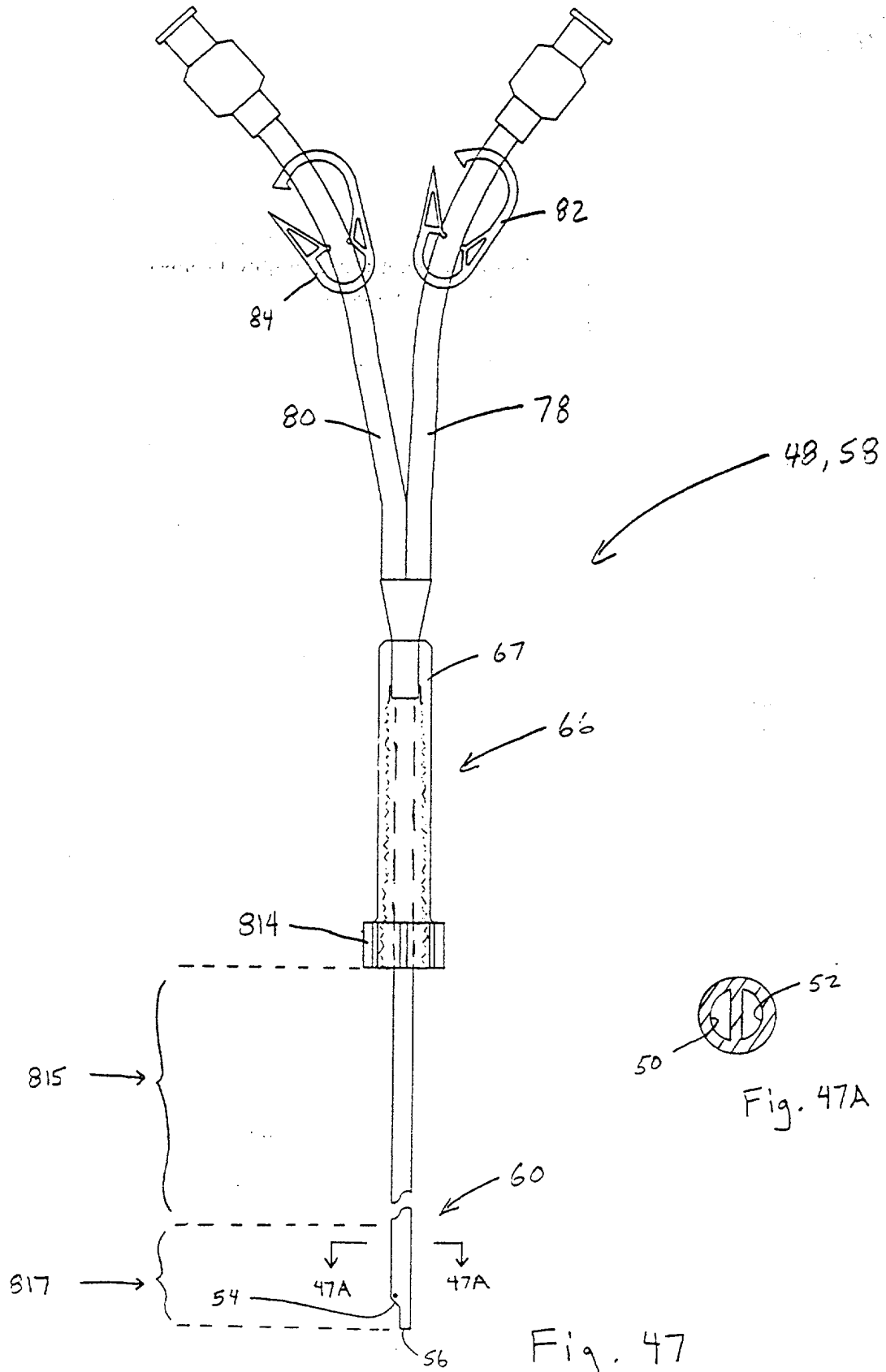


Fig. 46B



800

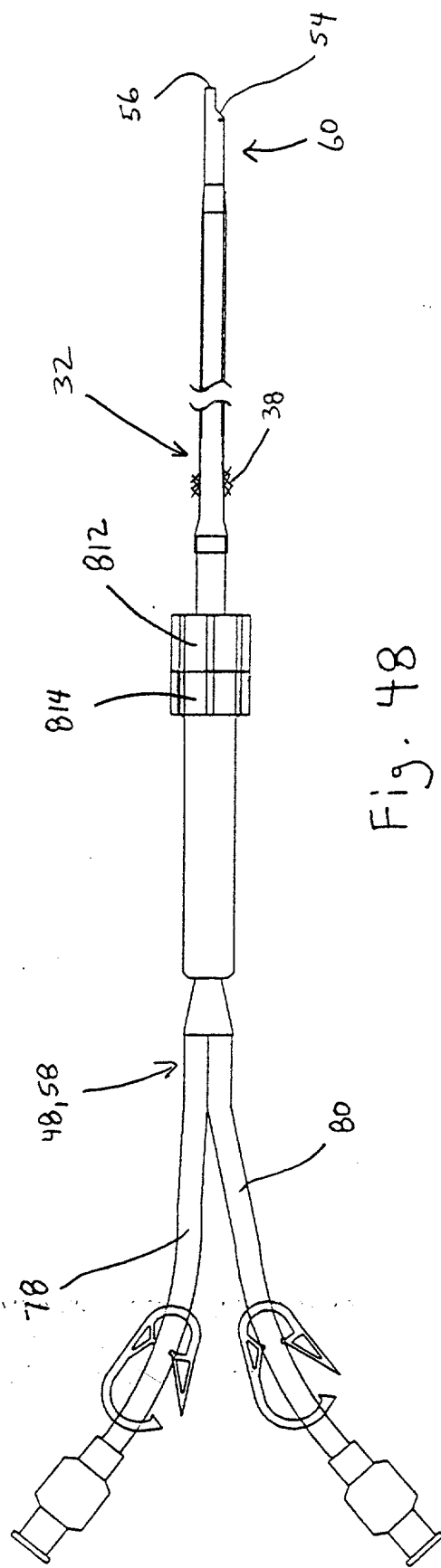
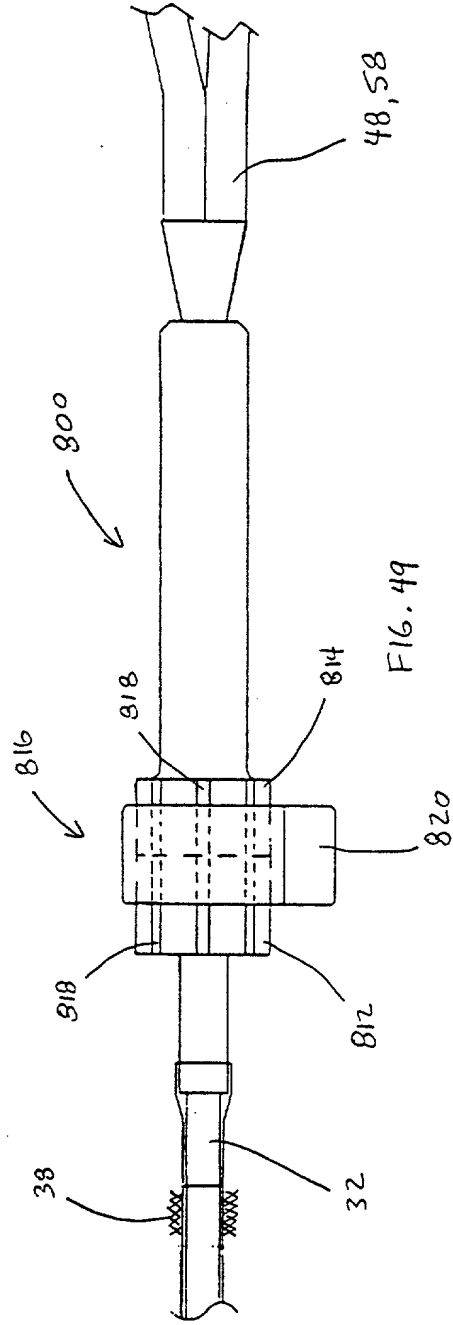
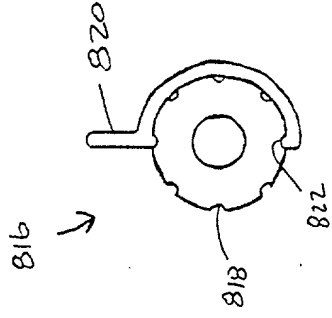
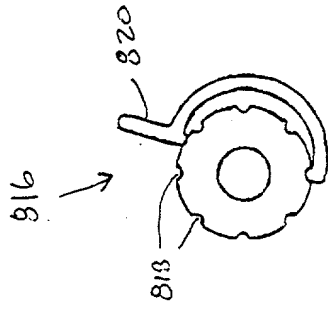
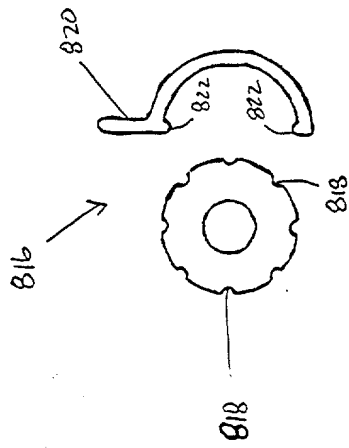
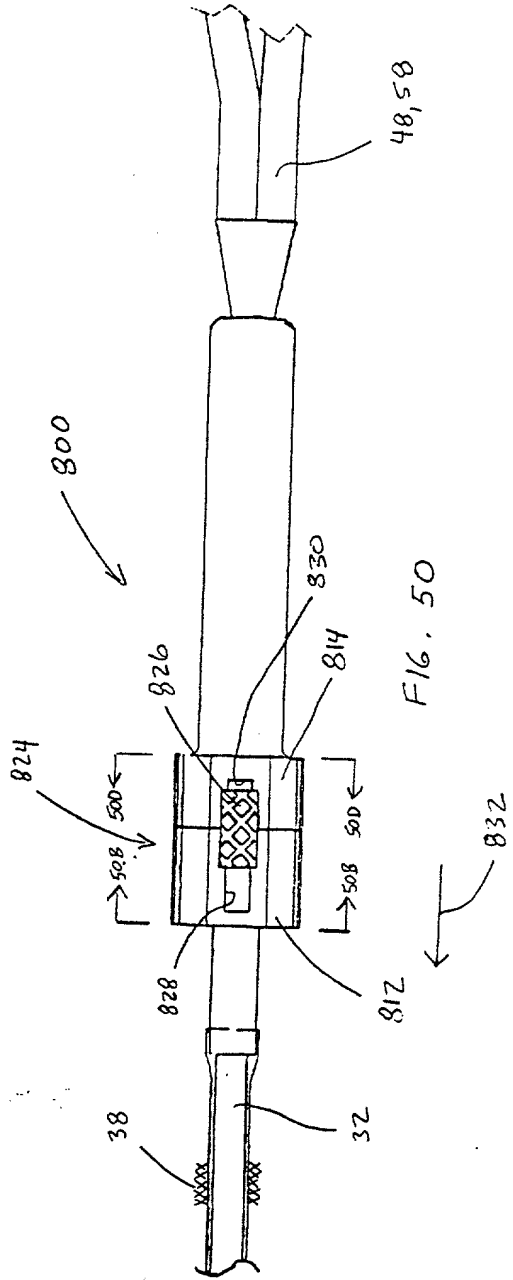
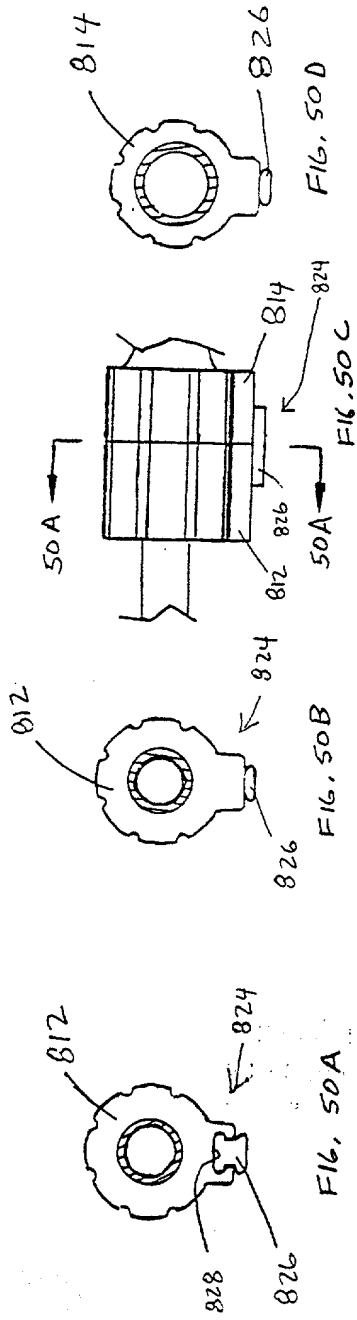


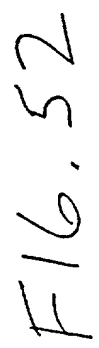
Fig. 48





F16.51





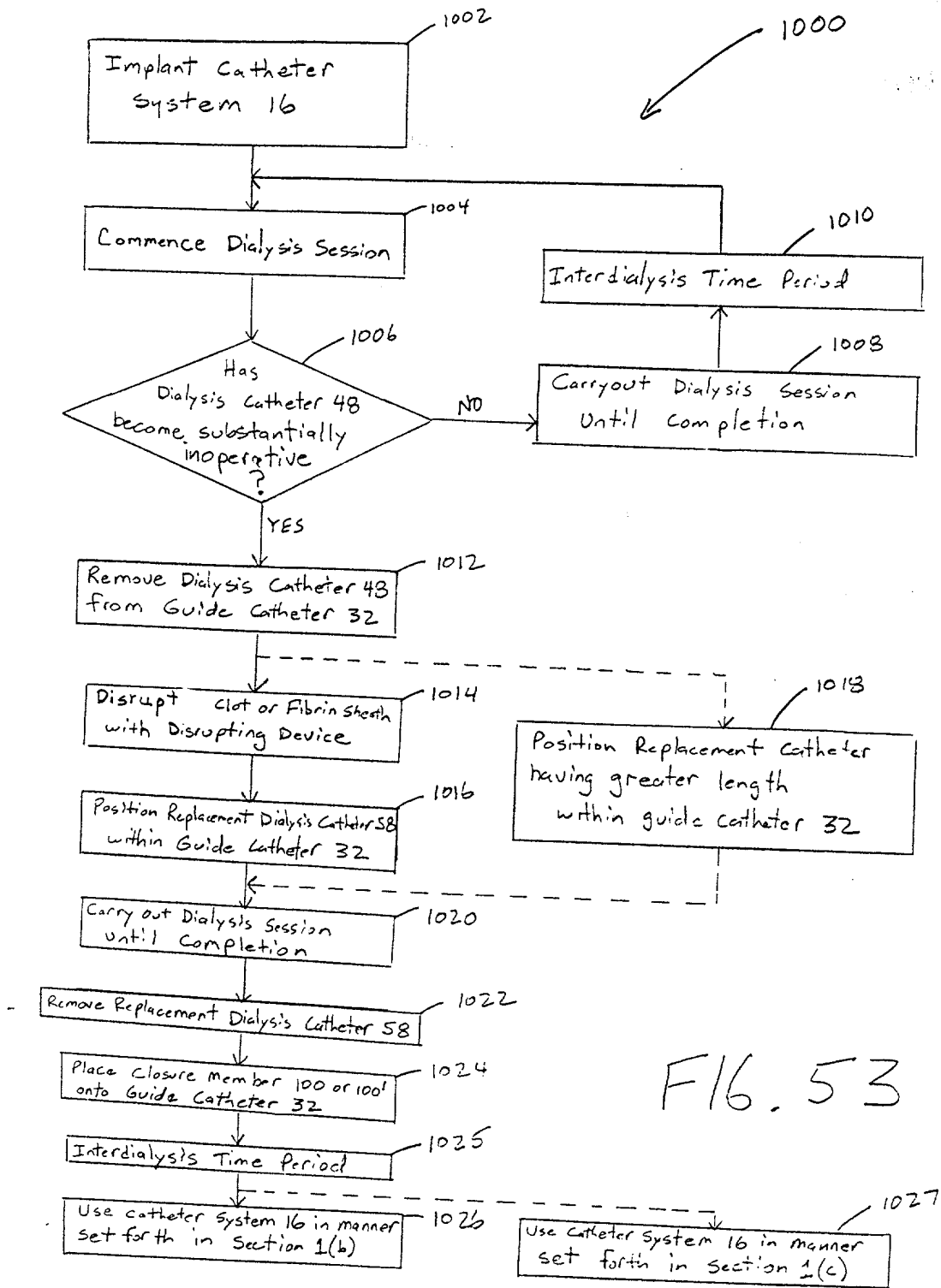


Fig. 54

2040ED 225000T

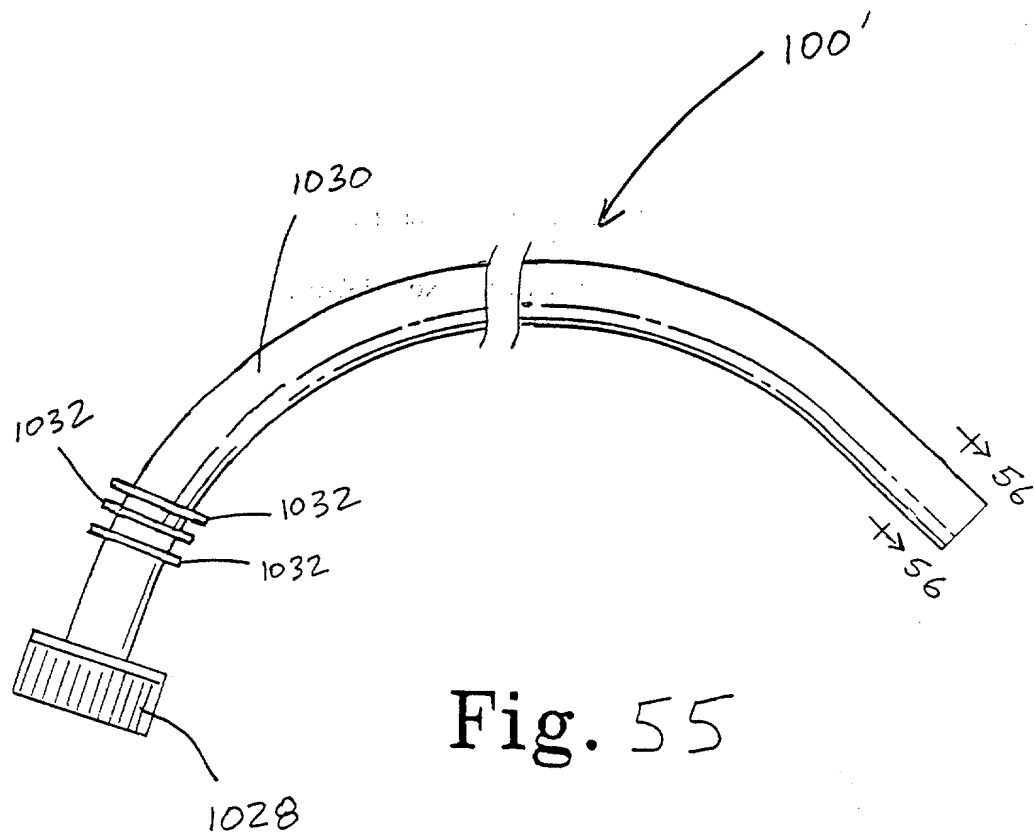


Fig. 55



FIG. 56

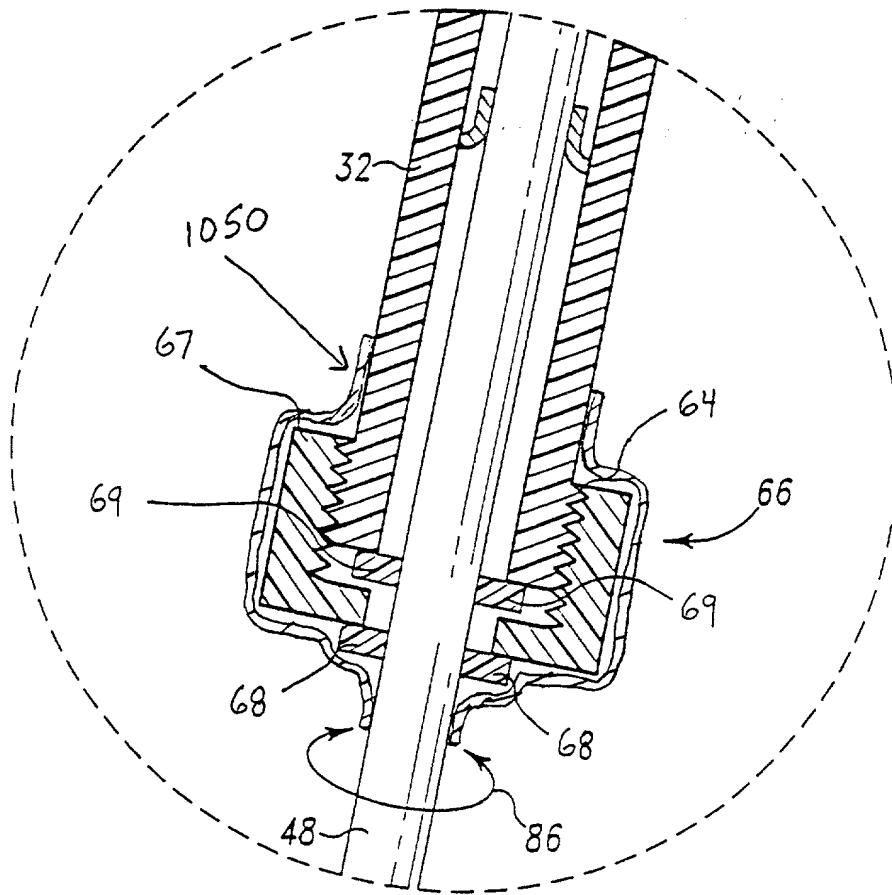


Fig. 57

201402742250001

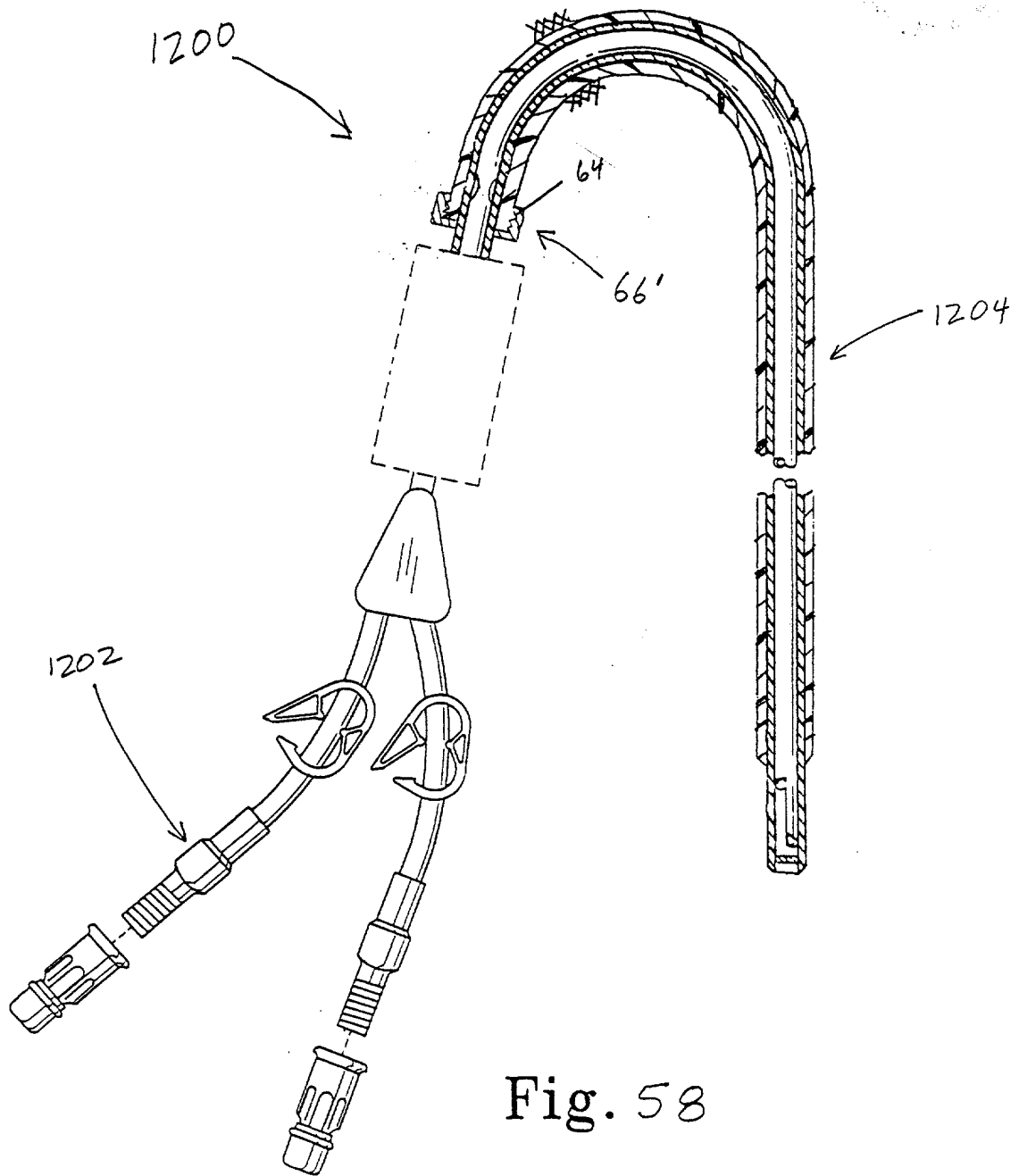


Fig. 58